

www.stat.gov.rs

BULLETIN

RESEARCH AND DEVELOPMENT IN THE REPUBLIC OF SERBIA, 2015

615
Belgrade
2016

REPUBLIC OF SERBIA STATISTICAL OFFICE OF THE REPUBLIC OF SERBIA

ISSN 0354-3641

Research and development in the Republic of Serbia, 2015

Belgrade, 2016

Published by: Statistical Office of the Republic of Serbia, Belgrade, 5 Milana Rakića St

Person responsible: Dr Miladin Kovačević, Director

Use of data published in this publication is authorized provided the source is acknowledged.

Preface

The Statistical Office of the Republic of Serbia publishes the results of the regular annual statistical survey on research and development organizations entitled "Annual Report on Research and Development – Form IR". The results refer to 2015, the territory of the Republic of Serbia, Srbija – sever, Srbija – jug and to the regions: Beogradski region, Region Vojvodine, Region Sumadije and Zapadne Srbije, and Region Juzne i Istocne Srbije.

R&D organizations and their activity are classified according to the type, size class and scientific field. Employees in the R&D activity are shown by occupation, scientific qualifications, type of employment and working hours, as well as by full-time equivalent (FTE). The data on research personnel, by age, have been published annually since 2007. In tables on research projects, finalised and non-finalised works are shown by type, ordering party and scientific field, while published works, inventions and patents are presented by publishing destination, i.e. sale, and by scientific field. The bulletin contains a tabulated presentation of funds for R&D work by origin, costs by source and use, as well as a presentation of investments in the R&D activity

Statistical data in this bulletin are available on the level of scientific fiels in which R&D organizations are classified, i.e. on the level of the scientific field of R&D works or inventions. All the data are available on the level of scientific field, both for R&D organizations and R&D projects.

The survey data have been published since 1965 in statistical bulletins of the Federal Statistical Office, and since 2002 by the Statistical Office of the Republic of Serbia.

Belgrade, 2016 the Director

Miladin Kovačević, PhD

Table of content

Pretace	3
Methodological explanations	7
1.1. R&D organization by sectors and fields of science, 2015	.14
2.1. Employees engaged in R&D activities, by sectors, fields of science and sex, 2015 (head count)	
2.2. Employees engaged in R&D activities by sectors, fields of sciences and sex, expressed in full-time equivalent, 2015	18
3.1. Full-time and part-time researchers, by academic titles, sectors, field of science and sex, 2015 (head count)	21
3.2. Full-time and part-time researchers, by academic titles, sectors, fields of science and sex, expressed i full-time equivalent, 2015	in 27
4.1. Full-time and part-time researchers and assistant researchers, by age and sex, 2015	33
5.1. Full-time and part-time assistant researchers, by academic titles, sectors, fields of science and sex, 2015 (head count)	.38
5.2. Full-time and part-time assistant researchers, by academic titles, sectors, fields of science in	40
	.42
6.2. Engaged on the basis of work on contract and author contract, expressed in full-time equivalent, 2015	.44
7.1. Research works (projects and studies), by sectors and territories, 2015	
7.2. Research works (projects and studies), by sectors and fields of science, 2015	
8.1. R&D works, by ordering parties, fields of science and type of research, 2015	
9.1. Published R&D works, inventions and patents, by fields of science, 2015	56
10.1. Inventions and patent by R&D intensity, 2015	.58
11.1. Gross domestic expenditure for R&D, by sectors and fields of science, 2015	.59
12.1. Sources of funds spent on R&D activities, 2015	.62
12.2. Sources of funds for R&D, 2015	
13.1. Gross domestic expenditure on R&D by groupings of activities, 2015	
Annexes	.77

METHODOLOGICAL EXPLANATIONS

Legal basis

The survey "Annual Report on Research and Development" is carried out on the basis of the Law on Official Statistics ("Official Journal of the RS", number 104/2009).

Methodological basis

Objective and scope of the statistical survey

The R&D activity, as an activity of particular importance for the Republic of Serbia, is an integral part of the international, scientific, education and cultural world. R&D is an activity of particular importance for the complete development of the Republic of Serbia based on knowledge, and combined with tertiary education is the principle factor and catalyst of economic and social growth.

R&D is a systematic creative work undertaken in view of discovering new stock of knowledge, in order to raise the general civilization level of the society and to use the knowledge in all social fields. The Annual Report on Research and Experimental Development (hereinafter: R&D) provides data on the scientific potential:

- number of organizations and units engaged in the R&D activity: by type, scientific field and section of economic activity;
- personnel: by sex, educational attainment, occupation, type of employment, working hours, full-time equivalent (FTE) and age;
- funds (receipts, expenditure and investments): by type of research, funding sources and use;
- results of R&D work: R&D works (finalised works, on-going works and published works): by type of research, ordering party and scientific party;
- inventions and patents: by scientific fields and R&D intensity.

Reporting units, statistical units

The population of the research and unit of observation of the statistical survey are all organisations engaged in the R&D activity, whether the latter is the principal activity or not.

Survey coverage

The reporting units of the survey are:

- R&D institutes and institutes of national interest for the Republic of Serbia; independent R&D organisations, business entities and institutions which principal or predominant activity is R&D.
- R&D units incorporated in enterprises or institutions.
- Tertiary educational institutions (faculties and arts academies), which activity, pursuant to the Law, is education and R&D-related, have been covered by this survey since 1978;



- Non-profit organisations – associations engaged in this activity. Excluded are R&D organisations created by the Ministry of the Interior and Ministry of Defence. The new Law on the R&D Activity anticipates the monitoring of these organisations.

Method, timetable and sources for data collection

The survey is conducted annually and the questionnaires are sent to reporting units the first week of April. Three questionnaires are used for that purpose, the first relating to business entities and centres of extraordinary values (technology and business incubators, science and technology parks), the second to faculties and institutes, and the third to non-profit organisations – associations. The reporting units fill in the R&D questionnaire in May of the current year, and data refer to the previous (reference) year, i.e. they are shown as of the end of the reference year. Data on the R&D activity are collected on full coverage: all faculties/academies, whatever the ownership, all R&D institutes, business entities and non-profit organisations/associations. All data on the number of R&D organisations and employees are shown as of 31 December of the reference year, while those on R&D works, receipts and expenditure refer to the whole year.

The main data sources are: human resources records on employees appointed to R&D, accounting records on realised receipts and calculated investments in R&D, as well as records of specialised services on the result of R&D activities – projects, works, patents pending, etc.

List and definitions of main concepts - indicators

Type of R&D organisation: R&D organisations are institutions and other legal entities, as well as units incorporated in business entities and institutions, which activity is completely or predominantly R&D-related. All the organisations are classified into:

- independent R&D institutes;
- Centre of extraordinary values: the status of the centre can be acquired by an institute, i.e. tertiary education institution or their organisational part(s) if they have achieved in a five-year period ultimate and internationally recognised scientific and professional results in a specific scientific discipline based on what they have an extended international scientific, technical and technological co-operation.
- Tertiary education institution
- R&D units of business entities; tertiary education institutions;
- Non-profit organisations/associations.

Sector of performance is determined according to the division of the economic activity in which R&D is performed. There are five sectors:

- Business sector covers business entities and organisations which primary activity is the market production of goods and services, and their sale at economically significant prices.
- This sector includes also private non-profit organisations, as well as incorporated R&D units.
- Government sector includes organisations, department offices and other bodies furnishing common services, other than tertiary education, which cannot be provided under market conditions and reflects the economical and social policy of the society. By definition, this sector covers: activities of the administration, defence and public order; health, education, culture, recreation and other social services; promotion of economic growth and living standard, and technological development. The legal, executive and institutional structure should be included in this sector, whether these are funded from regular or extraordinary budget.

- Non-profit sector covers non-market, private non-profit organisation serving households free of charge or at low cost. These organisations may be created by citizens' associations in order to provide goods and services to the members of the association or for general purposes. This sector includes professional associations, humanitarian organisations, trade associations, consumers' associations, etc.
- Tertiary education sector covers universities, faculties and academies, whatever their funding sources and legal status. This sector includes R&D institutes and clinics operating under the direct control of or administered by the tertiary education organisation.
- Sector "abroad" covers organisations and individuals located beyond the political boundaries of the country, as well as related land owned by these organisations. It also includes all international organisations, including their facilities on the national territory.

Personnel:

- Researcher is a person with at least tertiary educational attainment, i.e. having at least completed undergraduate academic studies and who is engaged in R&D work and holding the title pursuant to the Law. Depending on realised results in R&D, the researcher can acquire the research title: researcherapprentice and researcher-associate, and the scientific title: senior scientific associate and scientific advisor.
- **Assistant-researchers** do not hold any research title; work directly with researchers in carrying out professional or technical works relative to R&D (laboratory technicians, engineers and technicians of technical sciences, designers, librarians, information assistant, computer experts, language editors, etc.).
- **Administrators** carry out exclusively or predominantly organisational, clerical, legal, administrative or financial work (treasurer, secretaries, jurists, etc.).
- Other personnel carry out supporting activities in R&D organisations (employed in workshops, on agricultural land, couriers, switchboard operators, maintenance workers, drivers, suppliers, etc.).
- Excluded are personnel engaged in protection and security, restaurants, hygiene maintenance, and related (guards, desk clerks, charwomen, etc.).

R&D projects and studies: shown are works completed from 1st January to 31st December, whatever their beginning. Works not being ordered by ordering parties are excluded.

- Basic research is a creative, systematic activity focused on acquiring new knowledge on the origin and causes of phenomena and facts, without any particular application or use in view. The results of a basic research are often formulated as general principles, theories or rules.
- Applied research is undertaken whether to establish a possibility to use the results of a research, having in mind its practical application, or to find new methods or ways that facilitate the achievement of a particular objective set in advance. This survey starts from existing knowledge and examines it thoroughly in view of solving specific issues.
- **Experimental (development) research** is a creative systematic activity based on the results of the basic and applied research, and practical knowledge directed towards introducing new materials, products, devices, processes and methods.

Inventions and patents: an invention is a new technological solution to a specific problem that involves inventiveness and applicability. A patent is the right that protects an invention. Patent and patent rights are acquired after recognition and registration of a granted right in the corresponding register.

Industry classification according to R&D intensity (based on OECD standards): high technology, medium-high technology, medium-low technology and low technology.



Level of data representativeness

All data are available for R&D organisations, scientific fields, type of research, type of employment and personnel's working hours, level of certain activity classes (2010 CA) and according to the territorial principle (up to *NSTJ 2* level).

Survey organisation

The Statistical Office of the Republic of Serbia, with the help of the Ministry of Education, Science and Technological Development, prepares and carries out the survey on R&D organisations.

The Office defines and produces uniform methodological basis and tools for the survey, compiles address records of reporting units, prints the questionnaires and other materials for the carrying out of the survey, sends the questionnaires to the reporting units, collects the questionnaires, controls the coverage, response accuracy and data completeness, transmit data electronically, makes calculation and logical controls, processes the data and publishes the results for the Republic of Serbia in the "Statistical Yearbook of Serbia", as well as in this bulletin.

Harmonisation with international recommendations, standards and practice

The methodology for this survey is harmonised with international standards to the greatest possible extent (as much as allowed by our laws), methodological recommendations from the Frascati Manual, with the exception of some financial indicators, which are difficult to present due to differences in financing the R&D work of our country in relation to most of EU member countries and other international organisations.

SURVEY TOOLS

Questionnaires and instructions for filling the questionnaires

- questionnaires: IR-1, IR-2 and IR-3;
- instructions for filling in the questionnaires;
- Questionnaires are available on the website of the Statistical Office of the Republic of Serbia www.stat.gov.rs.

List of nomenclatures and classifications used in the survey

- Classification of Activities CA ("Official Journal of the RS", number 54/2010)
- Nomenclature of statistical territorial units NSTJ ("Official Journal of the RS", number 109/09 and 46/10)
- Fields of Science and Technology Classification, OECD 2006, Frascati Manual
- International Standard Classification of Education 2011 (the classifications and nomenclature are available on the website of the Statistical Office of the Republic of Serbia, www.stat.gov.rs)

Previous editions

Data on R&D organizations for previous years are available in the bulletins of the Federal Statistical Office, and since 2002 they have been published by the Statistical Office of the Republic of Serbia.

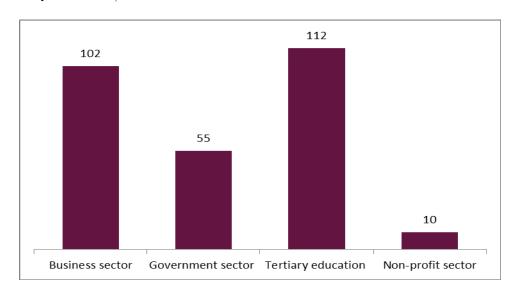
Symbols

- = nil
- ... = data not available
- 1) = footnote
- п = average
- () = incomplete, i.e. insufficiently checked data

Research and Development in the Republic of Serbia, 2015

1.1. R&D organization by sectors and fields of science, 2015

	Total	Business sector	Government sector	Tertiary education	Non-profit sector
REPUBLIC OF SERBIA	279	102	55	112	10
Natural sciences	43	13	11	18	1
Engineering and technology	103	68	10	22	3
Medical and health sciences	16	5	3	7	1
Agricultural sciences	28	10	11	6	1
Social sciences	66	6	9	47	4
Humanities	23	-	11	12	-
SRBIJA – SEVER	210	66	53	81	10
Natural sciences	37	9	11	16	1
Engineering and technology	66	42	9	12	3
Medical and health sciences	14	5	3	5	1
Agricultural sciences	23	7	10	5	1
Social sciences	50	3	9	34	4
Humanities	20	-	11	9	-
Beogradski region	169	55	48	58	8
Natural sciences	32	7	11	14	-
Engineering and technology	51	35	6	7	3
Medical and health sciences	12	5	3	3	1
Agricultural sciences	18	6	8	4	_
Social sciences	37	2	9	22	4
Humanities	19	-	11	8	-
Region Vojvodine	41	11	5	23	2
Natural sciences	5	2	-	2	1
Engineering and technology	15	7	3	5	_
Medical and health sciences	2	· -	-	2	_
Agricultural sciences	5	1	2	1	1
Social sciences	13	1	-	12	-
Humanities	1	-	-	1	-
SRBIJA – JUG	69	36	2	31	_
Natural sciences	6	4	-	2	-
Engineering and technology	37	26	1	10	_
Medical and health sciences	2	-	_	2	_
Agricultural sciences	5	3	1	1	_
Social sciences	16	3	<u>-</u>	13	_
Humanities	3	-	-	3	-
Region Šumadije i Zapadne Srbije	37	21	1	15	-
Natural sciences	5	4	-	1	-
Engineering and technology	17	13	-	4	-
Medical and health sciences	1	-	-	1	-
Agricultural sciences	4	2	1	1	-
Social sciences	9	2	-	7	-
Humanities	1	-	-	1	-
Region Južne i Istočne Srbije	32	15	1	16	-
Natural sciences	1	-	-	1	-
Engineering and technology	20	13	1	6	-
Medical and health sciences	1	-	-	1	-
Agricultural sciences	1	1	-	-	-
Social sciences	7	1	-	6	-
Humanities	2	-	-	2	-
Region Kosovo i Metohija				•••	



2.1. Employees engaged in R&D activities, by sectors, fields of science and sex, 2015 (head count)

	Total		Resea	archers		stant- rchers	Techr	nicians	Mana	gement	Other personnel	
	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
REPUBLIC OF SERBIA	23629	11695	16338	8044	1920	915	3115	1571	568	211	1688	954
Natural sciences	5384	2747	4035	2061	347	157	430	195	89	35	483	299
Engineering and technology	7261	2817	4314	1648	701	236	1281	506	259	70	706	357
Medical and health sciences	2804	1709	2388	1422	149	100	174	133	60	41	33	13
Agricultural sciences	2451	1221	1167	577	320	150	612	323	62	24	290	147
Social sciences	3961	2155	3022	1549	237	150	490	319	83	36	129	101
Humanities	1768	1046	1412	787	166	122	128	95	15	5	47	37
Business sector	3334	1134	1465	495	784	271	623	191	212	59	250	118
Natural sciences	982	242	640	151	148	45	121	30	33	4	40	12
Engineering and technology	2058	728	765	309	503	141	454	142	157	46	179	90
Medical and health sciences	95	64	-	-	83	56	4	1	6	5	2	2
Agricultural sciences	121	47	24	8	23	9	34	13	12	4	28	13
Social sciences	78	53	36	27	27	20	10	5	4	-	1	1
Government sector	5591	2972	3236	1851	413	192	1108	521	146	48	688	360
Natural sciences	1990	1204	1543	953	75	38	101	50	18	8	253	155
Engineering and technology	1476	610	603	275	110	44	461	180	65	9	237	102
Medical and health sciences	210	149	141	103	6	6	22	18	28	17	13	5
Agricultural sciences	1201	604	351	203	204	92	451	216	29	11	166	82
Social sciences	307	165	247	119	11	7	38	30	2	1	9	8
Humanities	407	240	351	198	7	5	35	27	4	2	10	8
Tertiary education	14680	7575	11630	5694	721	450	1377	855	204	102	748	474
Natural sciences	2412	1301	1852	957	124	74	208	115	38	23	190	132
Engineering and technology	3714	1473	2942	1062	88	51	361	182	35	15	288	163
Medical and health sciences	2499	1496	2247	1319	60	38	148	114	26	19	18	6
Agricultural sciences	1129	570	792	366	93	49	127	94	21	9	96	52
Social sciences	3565	1929	2736	1401	197	121	440	282	73	33	119	92
Humanities	1361	806	1061	589	159	117	93	68	11	3	37	29
Non-profit sector	24	14	7	4	2	2	7	4	6	2	2	2
Engineering and technology	13	6	4	2	-	-	5	2	2	-	2	2
Social sciences	11	8	3	2	2	2	2	2	4	2	-	-
SRBIJA – SEVER	19742	9747	13401	6587	1686	801	2724	1331	497	185	1434	843
Natural sciences	4952	2508	3658	1847	334	151	398	180	84	32	478	298
Engineering and technology	5857	2272	3425	1328	576	188	1123	418	218	57	515	281
Medical and health sciences	2094	1312	1754	1070	109	76	138	112	60	41	33	13
Agricultural sciences	2307	1150	1094	544	307	145	584	304	60	23	262	134
Social sciences	3297	1804	2487	1279	219	136	412	267	60	27	119	95
Humanities	1235	701	983	519	141	105	69	50	15	5	27	22
Business sector	2993	1020	1375	455	713	248	544	161	175	50	186	106
Natural sciences	970	239	636	148	148	45 133	116	30 135	33	4	37	12
Engineering and technology Medical and health sciences	1808 95	658 64	693	277	453 83	132 56	400 4	125 1	122 6	37 5	140 2	87 2
Agricultural sciences	54	16	10	3	12	5	14	-	12	4	6	4
Social sciences	66	43	36	27	17	10	10	5	2	-	1	1
Government sector	5367	2843	3173	1808	388	180	1081	499	144	47	581	309
Natural sciences	1990	1204	1543	953	75	38	101	50	18	8	253	155
Engineering and technology	1282	500	559	245	87	33	437	159	65	9	134	54
Medical and health sciences	210	149	141	103	6	6	22	18	28	17	13	5
Agricultural sciences	1171	585	332	190	202	91	448	215	27	10	162	79
Social sciences	307	165	247	119	11	7	38	30	2	1	9	8
Humanities	407	240	351	198	7	5	35	27	4	2	10	8
Tertiary education	11358	5870	8846	4320	583	371	1092	667	172	86	665	426
Natural sciences	1992	1065	1479	746	111	68	181	100	33	20	188	131
Engineering and technology	2754	1108	2169	804	36	23	281	132	29	11	239	138
Medical and health sciences	1789	1099	1613	967	20	14	112	93	26	19	18	6
Agricultural sciences	1082	549	752	351	93	49	122	89	21	9	94	51
Social sciences	2913	1588	2201	1131	189	117	362	230	52	24	109	86
Humanities	828	461	632	321	134	100	34	23	11	3	17	14
Non-profit sector	24	14	7	4	2	2	7	4	6	2	2	2
Engineering and technology	13	6	4	2	_	_	5	2	2	_	2	2
Engineering and technology	10	•	-	_			•	_	_		_	_

2.1. Employees engaged in R&D activities, by sectors, fields of science and sex, 2015 (head count) (continued)

	Total		Resea	archers		stant- rchers	Techr	nicians	Management		Other personnel	
	All	Women	All	Women	All	Women	All	Women	All	Women	All	Wome
Beogradski region	13737	6850	9142	4632	1296	607	1851	861	363	116	1085	634
Natural sciences	3865	2064	2764	1501	289	137	350	164	63	21	399	24
Engineering and technology	3946	1470	2106	817	509	159	839	281	161	32	331	181
Medical and health sciences	1357	860	1105	691	106	74	74	58	39	24	33	13
	1404	715	748	384	185	92	245	136	43	17	183	86
Agricultural sciences												
Social sciences	1983	1062	1478	736	66	40	280	177	46	18	113	9
Humanities	1182	679	941	503	141	105	63	45	11	4	26	22
Business sector	2129	775	768	309	652	234	437	120	121	31	151	8
Natural sciences	472	148	180	66	124	43	116	30	25	3	27	(
Engineering and technology	1457	509	545	213	419	121	296	84	77	19	120	72
Medical and health sciences	95	64	-	_	83	56	4	1	6	5	2	:
Agricultural sciences	42	12	7	3	11	5	12	_	11	4	1	
Social sciences	63	42	36	27	15	9	9	5	2	_	1	
Government sector	4601	2462	2947	1687	265	126	755	344	132	43	502	262
Natural sciences	1990	1204	1543	953	75	38	101	50	18	8	253	155
Engineering and technology	1122	410	461	189	75	29	395	133	64	9	127	50
Medical and health sciences	210	149	141	103	6	6	22	18	28	17	13	
Agricultural sciences	565	294	204	125	91	41	164	86	16	6	90	36
Social sciences	307	165	247	119	11	7	38	30	2	1	9	8
Humanities	407	240	351	198	7	, 5	35	27	4	2	10	8
Tertiary education	6983	3599	5420	2632	377	245	652	393	104	40	430	289
Natural sciences	1403	712	1041	482	90	56	133	84	20	10	119	80
Engineering and technology	1354	545	1096	413	15	9	143	62	18	4	82	57
Medical and health sciences	1052	647	964	588	17	12	48	39	5	2	18	6
Agricultural sciences	797	409	537	256	83	46	69	50	16	7	92	50
Social sciences	1602	847	1192	588	38	22	231	140	38	15	103	82
									7	2		
Humanities	775	439	590	305	134	100	28	18	1	2	16	14
Non-profit sector	24	14	7	4	2	2	7	4	6	2	2	2
Engineering and technology	13	6	4	2	-	-	5	2	2	-	2	2
Social sciences	11	8	3	2	2	2	2	2	4	2	-	-
Region Vojvodine	6005	2897	4259	1955	390	194	873	470	134	69	349	209
Natural sciences	1087	444	894	346	45	14	48	16	21	11	79	57
	I											
Engineering and technology	1911	802	1319	511	67	29	284	137	57	25	184	100
Medical and health sciences	737	452	649	379	3	2	64	54	21	17	-	
Agricultural sciences	903	435	346	160	122	53	339	168	17	6	79	48
Social sciences	1314	742	1009	543	153	96	132	90	14	9	6	4
Humanities	53	22	42	16	-	-	6	5	4	1	1	
Business sector	864	245	607	146	61	14	107	41	54	19	35	25
		91	456	82	24	2	107		8	1	10	6
Natural sciences	498						-					
Engineering and technology	351	149	148	64	34	11	104	41	45	18	20	15
Agricultural sciences	12	4	3	-	1	-	2	-	1	-	5	4
Social sciences	3	1	-	-	2	1	1	-	-	-	-	
Government sector	766	381	226	121	123	54	326	155	12	4	79	47
Engineering and technology	160	90	98	56	12	4	42	26	1	-	7	2
Agricultural sciences	606	291	128	65	111	50	284	129	11	4	72	43
· ·	4275			1688	206	400	440	274	68	46	225	137
Tertiary education	4375	2271	3426		206	126		274		46	235	
Natural sciences	589	353	438	264	21	12	48	16	13	10	69	5
Engineering and technology	1400	563	1073	391	21	14	138	70	11	7	157	8
Medical and health sciences	737	452	649	379	3	2	64	54	21	17	-	
Agricultural sciences	285	140	215	95	10	3	53	39	5	2	2	
Social sciences	1311	741	1009	543	151	95	131	90	14	9	6	4
Humanities	53	22	42	16	-	-	6	5	4	1	1	
ODDILA IIIO	200=	40.40	000=	4	66.		667	2.12		25		
SRBIJA – JUG	3887	1948	2937	1457	234	114	391	240	71	26	254	11
Natural sciences	432	239	377	214	13	6	32	15	5	3	5	
	1404	545	889	320	125	48	158	88	41	13	191	76
Engineering and technology												
Engineering and technology Medical and health sciences	710	397	634	352	40	24	36	21	-	-	-	
Medical and health sciences	710 144	397 71	634 73		40 13	24 5	36 28	21 19	- 2	- 1	- 28	1:
				352 33 270								1:

2.1. Employees engaged in R&D activities, by sectors, fields of science and sex, 2015 (head count) (continued)

	To	otal	Resea	archers		stant- rchers	Techi	nicians	Mana	gement	Other personnel	
	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
Business sector	341	114	90	40	71	23	79	30	37	9	64	12
Natural sciences	12	3	4	3	-	-	5	-	-	-	3	
Engineering and technology	250	70	72	32	50	9	54	17	35	9	39	3
Agricultural sciences	67	31	14	5	11	4	20	13	-	-	22	9
Social sciences	12	10	-	-	10	10	-	-	2	-	-	-
Government sector	224	129	63	43	25	12	27	22	2	1	107	51
Engineering and technology	194	110	44	30	23	11	24	21	-	_	103	48
Agricultural science	30	19	19	13	2	1	3	1	2	1	4	3
-	3322	1705	2784	1374	138	79	285	188	32	16	83	48
Tertiary education	420		373	211	130	7 9 6	205 27	15	32 5	3	2	40
Natural sciences		236								4		
Engineering and technology	960	365	773	258	52	28	80	50	6	4	49	25
Medical and health sciences	710	397	634	352	40	24	36	21	-	-	-	
Agricultural sciences	47	21	40	15	-	-	5	5	-	-	2	1
Social sciences	652	341	535	270	8	4	78	52	21	9	10	6
Humanities	533	345	429	268	25	17	59	45	-	-	20	15
Region Šumadije i Zapadne Srbije	1575	813	1212	622	97	43	191	110	39	18	36	20
Natural sciences	230	134	175	109	13	6	32	15	5	3	5	1
Engineering and technology	396	125	282	86	35	10	41	13	23	7	15	ç
Medical and health sciences	355	196	292	161	27	14	36	21	_	_	_	
Agricultural sciences	78	40	59	28	2	1	9	6	2	1	6	4
Social sciences	324	184	252	132	4	2	49	37	9	7	10	6
Humanities	192	134	152	106	16	10	24	18	-		-	
										_		
Business sector	137	45	38	18	30	8	42	12	23	7	4	
Natural sciences	12	3	4	3	-	-	5	-	-	-	3	
Engineering and technology Agricultural sciences	124 1	42	34	15 -	30	8 -	36 1	12 -	23	7 -	1 -	-
Government sector	30	19	19	13	2	1	3	1	2	1	4	3
Agricultural sciences	30	19	19	13	2	1	3	1	2	1	4	3
Tertiary education	1408	749	1155	591	65	34	146	97	14	10	28	17
Natural sciences	218	131	171	106	13	6	27	15	5	3	2	1
Engineering and technology	272	83	248	71	5	2	5	1	-	-	14	g
Medical and health sciences	355	196	292	161	27	14	36	21	-	_	-	-
Agricultural sciences	47	21	40	15	_	_	5	5	_	_	2	1
Social sciences	324	184	252	132	4	2	49	37	9	7	10	6
Humanities	192	134	152	106	16	10	24	18	-	-	-	-
Region Južne i Istočne Srbije	2312	1135	1725	835	137	71	200	130	32	8	218	91
Natural sciences	202	105	202	105	_	-	_	_	_	_	_	
Engineering and technology	1008	420	607	234	90	38	117	75	18	6	176	67
Medical and health sciences	355	201	342	191	13	10	_	_	_	_	_	
Agricultural sciences	66	31	14	5	11	4	19	13	_	_	22	g
Social sciences	340	167	283	138	14	12	29	15	14	2		
Humanities	341	211	277	162	9	7	35	27		-	20	15
										•		
Business sector	204	69	52	22	41	15	37	18	14	2	60	12
Engineering and technology	126	28	38	17	20	1	18	5	12	2	38	3
Agricultural sciences	66	31	14	5	11	4	19	13	-	-	22	9
Social sciences	12	10	-	-	10	10	-	-	2	-	-	
Government sector	194	110	44	30	23	11	24	21	-	-	103	48
Engineering and technology	194	110	44	30	23	11	24	21	-	-	103	48
Tertiary education	1914	956	1629	783	73	45	139	91	18	6	55	31
Natural sciences	202	105	202	105	-	-	-	-	-	-	-	
Engineering and technology	688	282	525	187	47	26	75	49	6	4	35	16
Medical and health sciences	355	201	342	191	13	10	-	-	-	-	-	
Social sciences	328	157	283	138	4	2	29	15	12	2	-	
Humanities	341	211	277	162	9	7	35	27	-	-	20	15
Region Kosovo i Metohija												

2.2. Full-time and part-time employees engaged in R&D activities by sectors, fields of sciences and sex, expressed in full-time equivalent, 2015

	To	otal	Resea	archers		stant- archers	Techi	nicians	Mana	gement	Other p	ersonnel
	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
REPUBLIC OF SERBIA	21572.8	10688.5		7201.2	1743.5	847.1	2973.9	1506.8	542.9	199.4	1655.9	934.1
Natural sciences	5107.8	2637.0	3832.2	1976.5	306.7	143.3	403.7	186.7	83.8	32.8	481.4	297.7
Engineering and technology	6688.2	2600.6	3902.1	1489.8	623.7	220.8	1233.7	486.4	246.7	62.8	682.0	340.8
Medical and health sciences	2054.7	1265.3	1680.1	1002.5	127.6	87.6	154.3	121.5	59.8	40.8	33.0	13.0
Agricultural sciences	2385.9	1191.7	1127.3	558.4	318.4	149.2	593.5	314.6	60.7	24.0	286.0	145.5
Social sciences	3631.7	1975.1	2748.7	1403.8	209.9	130.1	467.9	306.2	77.8	34.0	127.4	101.0
Humanities	1704.5	1018.8	1366.3	770.2	157.2	116.1	120.8	91.4	14.1	5.0	46.1	36.1
Business sector	3089.7	1065.7	1405.5	478.0	667.0	239.3	575.9	181.3	196.3	51.3	245.0	115.8
Natural sciences	907.0	222.2	627.9	150.2	108.5	32.1	100.7	24.7	29.9	3.2	40.0	12.0
Engineering and technology	1915.4	694.9	721.8	296.6	438.4	133.0	434.6	138.2	146.6	39.3	174.0	87.8
Medical and health sciences	92.7	62.7	-	-	81.6	55.2	3.3	0.7	5.8	4.8	2.0	2.0
Agricultural sciences	113.8	46.2	24.0	8.0	21.4	8.2	28.4	13.0	12.0	4.0	28.0	13.0
Social sciences	60.8	39.7	31.8	23.2	17.1	10.8	8.9	4.7	2.0	-	1.0	1.0
Government sector	5379.6	2876.4	3048.9	1767.4	412.1	191.8	1090.2	511.5	145.0	48.0	683.4	357.7
Natural sciences	1972.0	1195.3	1527.4	946.4	75.0	38.0	100.2	49.2	18.0	8.0	251.4	153.7
Engineering and technology	1321.2	546.5	451.7	211.5	110.0	44.0	457.5	180.0	65.0	9.0	237.0	102.0
Medical and health sciences	194.1	138.3	126.3	93.2	5.8	5.8	21.0	17.3	28.0	17.0	13.0	5.0
Agricultural sciences	1184.0	594.5	350.5	202.5	204.0	92.0	438.5	208.0	28.0	11.0	163.0	81.0
Social sciences	303.6	163.6	244.3	117.6	10.3	7.0	38.0	30.0	2.0	1.0	9.0	8.0
Humanities	404.7	238.2	348.7	196.2	7.0	5.0	35.0	27.0	4.0	2.0	10.0	8.0
Tertiary education	13080.8	6733.2	10196.0	4952.6	662.4	414.0	1300.8	810.0	196.1	98.1	725.5	458.6
Natural sciences	2228.8	1219.5	1676.9	879.9	123.2	73.2	202.8	112.8	35.9	21.6	190.0	132.0
Engineering and technology	3438.6	1353.2	2724.6	979.7	75.3	43.8	336.6	166.2	33.1	14.5	269.0	149.0
Medical and health sciences	1767.9	1064.3	1553.8	909.3	40.2	26.6	130.0	103.5	26.0	19.0	18.0	6.0
Agricultural sciences	1088.1	551.0	752.8	347.9	93.0	49.0	126.6	93.6	20.7	9.0	95.0	51.5
Social sciences	3257.6	1764.6	2470.4	1261.8	180.5	110.3	419.0	269.5	70.3	31.0	117.4	92.0
Humanities	1299.8	780.6	1017.6	574.0	150.3	111.1	85.8	64.4	10.1	3.0	36.1	28.1
Non-profit sector	22.7	13.2	6.2	3.2	2.0	2.0	7.0	4.0	5.5	2.0	2.0	2.0
Engineering and technology	13.0	6.0	4.0	2.0	-	-	5.0	2.0	2.0	-	2.0	2.0
Social sciences	9.7	7.2	2.2	1.2	2.0	2.0	2.0	2.0	3.5	2.0	-	-
SRBIJA – SEVER	18140.6	8978.2	12087.5	5929.9	1545.8	755.4	2621.8	1289.4	480.7	178.9	1404.8	824.6
Natural sciences	4680.4	2399.7	3459.8	1764.2	293.7	137.3	371.7	171.7	78.8	29.8	476.4	296.7
Engineering and technology	5422.6	2117.3	3119.8	1211.7	507.4	177.5	1089.4	406.5	212.7	55.3	493.3	266.3
Medical and health sciences	1567.7	988.3	1236.8	752.7	101.8	70.8	136.3	111.0	59.8	40.8	33.0	13.0
Agricultural sciences	2241.9	1120.7	1054.3	525.4	305.4	144.2	565.5	295.6	58.7	23.0	258.0	132.5
Social sciences	3040.1	1672.4	2266.5	1169.1	201.9	125.1	397.1	258.2	56.6	25.0	118.0	95.0
Humanities	1188.0	679.8	950.4	506.8	135.6	100.5	61.8	46.4	14.1	5.0	26.1	21.1
Business sector	2777.1	971.9	1323.9	444.4	604.0	224.3	500.3	152.1	167.1	47.3	181.8	103.8
Natural sciences	895.0	219.2	623.9	147.2	108.5	32.1	95.7	24.7	29.9	3.2	37.0	12.0
Engineering and technology	1684.0	637.1	658.2	271.0	388.4	124.0	384.0	122.0	117.6	35.3	135.8	84.8
Medical and health sciences	92.7	62.7	-	-	81.6	55.2	3.3	0.7	5.8	4.8	2.0	2.0
Agricultural sciences	46.8	15.2	10.0	3.0	10.4	4.2	8.4	-	12.0	4.0	6.0	4.0
Social sciences	58.6	37.7	31.8	23.2	15.1	8.8	8.9	4.7	1.8	-	1.0	1.0
Government sector	5155.6	2747.4	2985.9	1724.4	387.1	179.8	1063.2	489.5	143.0	47.0	576.4	306.7
Natural sciences	1972.0	1195.3	1527.4	946.4	75.0	38.0	100.2	49.2	18.0	8.0	251.4	153.7
Engineering and technology	1127.2	436.5	407.7	181.5	87.0	33.0	433.5	159.0	65.0	9.0	134.0	54.0
Medical and health sciences	194.1	138.3	126.3	93.2	5.8	5.8	21.0	17.3	28.0	17.0	13.0	5.0
Agricultural sciences	1154.0	575.5	331.5	189.5	202.0	91.0	435.5	207.0	26.0	10.0	159.0	78.0
Social sciences	303.6	163.6	244.3	117.6	10.3	7.0	38.0	30.0	2.0	1.0	9.0	8.0
Humanities	404.7	238.2	348.7	196.2	7.0	5.0	35.0	27.0	4.0	2.0	10.0	8.0
Tertiary education	10185.2	5245.7	7771.5	3757.9	552.7	349.3	1051.3	643.8	165.1	82.6	644.6	412.1
Natural sciences	1813.4	985.2	1308.5	670.6	110.2	67.2	175.8	97.8	30.9	18.6	188.0	131.0
Engineering and technology	2598.4	1037.7	2049.9	757.2	32.0	20.5	266.9	123.5	28.1	11.0	221.5	125.5
Medical and health sciences	1280.9	787.3	1110.5	659.5	14.4	9.8	112.0	93.0	26.0	19.0	18.0	6.0
Agricultural sciences	1041.1	530.0	712.8	332.9	93.0	49.0	121.6	88.6	20.7	9.0	93.0	50.5
Social sciences	2668.2	1463.9	1988.2	1027.1	174.5	107.3	348.2	221.5	49.3	22.0	108.0	86.0
Humanities	783.3	441.6	601.7	310.6	128.6	95.5	26.8	19.4	10.1	3.0	16.1	13.1
Non-profit sector	22.7	13.2	6.2	3.2	2.0	2.0	7.0	4.0	5.5	2.0	2.0	2.0
Engineering and technology	13.0	6.0	4.0	2.0		5	5.0	2.0	2.0	-	2.0	2.0
Social sciences	9.7	7.2	2.2		2.0	2.0	2.0	2.0	3.5	2.0	-	
	1 0.7				2.5	2.0	2.5	0	0.0	0		

2.2. Full-time and part-time employees engaged in R&D activities by sectors, fields of sciences and sex, expressed in full-time equivalent, 2015 (continued)

	То	otal	Resea	archers		stant- irchers	Techr	nicians	Manag	gement	Other p	ersonnel
	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
Beogradski region	12810.9	6429.9	8454.2	4296.7	1172.1	571.3	1770.6	832.4	352.7	111.9	1061.3	617.6
Natural sciences	3646.6	1980.6	2616.2	1442.6	250.8	123.8	323.7	155.7	58.5	18.8	397.4	239.7
Engineering and technology	3574.0	1327.1	1859.6	711.3	441.1	149.2	806.2	269.5	157.3	30.3	309.8	166.8
Medical and health sciences	1208.7	754.0	965.8	591.4	98.8	68.8	72.3	57.0	38.8	23.8	33.0	13.0
Agricultural sciences	1358.4	695.7	710.3	365.9	183.4	91.2	239.0	135.6	42.7	17.0	183.0	86.0
Social sciences	1888.2	1014.7	1393.9	694.7	62.4	37.8	273.6	173.2	45.3	18.0	113.0	91.0
Humanities	1135.0	657.8	908.4	490.8	135.6	100.5	55.8	41.4	10.1	4.0	25.1	21.1
Business sector	1928.4	728.1	727.8	298.9	545.3	211.0	394.0	111.1	114.5	28.3	146.8	78.8
Natural sciences	410.2	128.7	178.8	65.7	86.1	30.1	95.7	24.7	22.6	2.2	27.0	6.0
Engineering and technology	1335.1	488.8	510.2	207.0	355.1	113.7	280.7	81.0	73.3	17.3	115.8	69.8
Medical and health sciences	92.7	62.7	-	-	81.6	55.2	3.3	0.7	5.8	4.8	2.0	2.0
Agricultural sciences	34.8	11.2	7.0	3.0	9.4	4.2	6.4		11.0	4.0	1.0	-
Social sciences	55.6	36.7	31.8	23.2	13.1	7.8	7.9	4.7	1.8	-	1.0	1.0
Government sector	4406.7	2375.4	2760.5	1603.4	264.1	125.8	749.7	342.5	132.0	43.0	500.4	260.7
Natural sciences	1972.0	1195.3	1527.4	946.4	75.0	38.0	100.2	49.2	18.0	8.0	251.4	153.7
Engineering and technology	967.8	346.5	310.3	125.5	75.0	29.0	391.5	133.0	64.0	9.0	127.0	50.0
Medical and health sciences	194.1	138.3	126.3	93.2	5.8	5.8	21.0	17.3	28.0	17.0	13.0	5.0
Agricultural sciences	564.5	293.5	203.5	124.5	91.0	41.0	164.0	86.0	16.0	6.0	90.0	36.0
Social sciences	303.6	163.6	244.3	117.6	10.3	7.0	38.0	30.0	2.0	1.0	9.0	8.0
Humanities	404.7	238.2	348.7	196.2	7.0	5.0	35.0	27.0	4.0	2.0	10.0	8.0
Tertiary education	6453.1	3313.2	4959.7	2391.2	360.7	232.5	619.9	374.8	100.7	38.6	412.1	276.1
Natural sciences	1264.4	656.6	910.0	430.5	89.7	55.7	127.8	81.8	17.9	8.6	119.0	80.0
Engineering and technology	1258.1	485.8	1035.1	376.8	11.0	6.5	129.0	53.5	18.0	4.0	65.0	45.0
Medical and health sciences	921.9	553.0	839.5	498.2	11.4	7.8	48.0	39.0	5.0	2.0	18.0	6.0
Agricultural sciences	759.1	391.0	499.8	238.4	83.0	46.0	68.6	49.6	15.7	7.0	92.0	50.0
Social sciences	1519.3	807.2	1115.6	552.7	37.0	21.0	225.7	136.5	38.0	15.0	103.0	82.0
Humanities	730.3	419.6	559.7	294.6	128.6	95.5	20.8	14.4	6.1	2.0	15.1	13.1
Non-profit sector	22.7	13.2	6.2	3.2	2.0	2.0	7.0	4.0	5.5	2.0	2.0	2.0
Engineering and technology	13.0	6.0	4.0	2.0			5.0	2.0	2.0		2.0	2.0
Social sciences	9.7	7.2	2.2	1.2	2.0	2.0	2.0	2.0	3.5	2.0	-	-
Region Vojvodine	5329.8	2548.3	3633.4	1633.2	373.7	184.1	851.2	457.0	128.0	67.0	343.5	207.0
Natural sciences	1033.8	419.1	843.6	321.6	42.9	13.5	48.0	16.0	20.3	11.0	79.0	57.0
Engineering and technology	1848.6	790.2	1260.2	500.4	66.3	28.3	283.2	137.0	55.4	25.0	183.5	99.5
Medical and health sciences	359.0	234.3	271.0	161.3	3.0	2.0	64.0	54.0	21.0	17.0	_	_
Agricultural sciences	883.5	425.0	344.0	159.5	122.0	53.0	326.5	160.0	16.0	6.0	75.0	46.5
Social sciences	1151.9	657.7	872.6	474.4	139.5	87.3	123.5	85.0	11.3	7.0	5.0	4.0
Humanities	53.0	22.0	42.0	16.0	-	-	6.0	5.0	4.0	1.0	1.0	-
Business sector	848.7	243.8	596.1	145.5	58.7	13.3	106.3	41.0	52.6	19.0	35.0	25.0
Natural sciences	484.8	90.5	445.1	81.5	22.4	2.0	100.5	41.0	7.3	1.0	10.0	6.0
Engineering and technology	348.9	148.3	148.0	64.0	33.3	10.3	103.3	41.0	44.3	18.0	20.0	15.0
Agricultural sciences	12.0	4.0	3.0	04.0	1.0	-	2.0		1.0	10.0	5.0	4.0
Social sciences	3.0	1.0	-	_	2.0	1.0	1.0	-	-	_	-	-
	748.9		225.4	121.0					11.0	4.0	76.0	46.0
Сектор државе	159.4	372.0 90.0	97.4	121.0 56.0	123.0 12.0	54.0 4.0	313.5 42.0	147.0 26.0	11.0	4.0	76.0 7.0	46.0
Engineering and technology	589.5	282.0			111.0		271.5		1.0	4.0	69.0	4.0
Agricultural sciences			128.0	65.0		50.0		121.0	10.0	4.0		42.0
Tertiary education	3732.2	1932.5	2811.9	1366.7	192.0	116.8	431.4	269.0	64.4	44.0	232.5	136.0
Natural sciences	549.0	328.6	398.5	240.1	20.5	11.5	48.0	16.0	13.0	10.0	69.0	51.0
Engineering and technology	1340.3	551.9	1014.8	380.4	21.0	14.0	137.9	70.0	10.1	7.0	156.5	80.5
Medical and health sciences	359.0	234.3	271.0	161.3	3.0	2.0	64.0	54.0	21.0	17.0	-	-
Agricultural sciences	282.0	139.0	213.0	94.5	10.0	3.0	53.0	39.0	5.0	2.0	1.0	0.5
Social sciences	1148.9	656.7	872.6	474.4	137.5	86.3	122.5	85.0	11.3	7.0	5.0	4.0
Humanities	53.0	22.0	42.0	16.0	-	-	6.0	5.0	4.0	1.0	1.0	-
SRBIJA – JUG	3432.2	1710.3	2569.1	1271.3	197.7	91.7	352.1	217.4	62.2	20.5	251.1	109.5
Natural sciences	427.4	237.3	372.4	212.3	13.0	6.0	32.0	15.0	5.0	3.0	5.0	1.0
Engineering and technology	1265.6	483.3	782.3	278.1	116.3	43.3	144.3	79.9	34.0	7.5	188.7	74.5
Medical and health sciences	487.0	277.0	443.3	249.8	25.8	16.8	18.0	10.5	-	-	-	-
Agricultural sciences	144.0	71.0	73.0	33.0	13.0	5.0	28.0	19.0	2.0	1.0	28.0	13.0
Social sciences	591.7	302.7	482.3	234.7	8.0	5.0	70.8	48.0	21.2	9.0	9.4	6.0
Humanities	516.5	339.0	415.9	263.4	21.6	15.6	59.0	45.0	-	-	20.0	15.0

2.2. Full-time and part-time employees engaged in R&D activities by sectors, fields of sciences and sex, expressed in full-time equivalent, 2015 (continued)

	To	otal	Resea	archers		stant- irchers	Techi	nicians	Mana	gement	Other p	ersonnel
	All	Women	All	Women	All	Women	All	Women	All	Women	All	Womer
Business sector	312.6	93.8	81.6	33.6	63.0	15.0	75.6	29.2	29.2	4.0	63.2	12.0
Natural sciences	12.0	3.0	4.0	3.0	-	-	5.0	-	-	-	3.0	-
Engineering and technology	231.4	57.8	63.6	25.6	50.0	9.0	50.6	16.2	29.0	4.0	38.2	3.0
Agricultural sciences	67.0	31.0	14.0	5.0	11.0	4.0	20.0	13.0	-	-	22.0	9.0
Social sciences	2.2	2.0	-	-	2.0	2.0	-	-	0.2	-	-	-
Government sector	224.0	129.0	63.0	43.0	25.0	12.0	27.0	22.0	2.0	1.0	107.0	51.0
Engineering and technology	194.0	110.0	44.0	30.0	23.0	11.0	24.0	21.0		-	103.0	48.0
Agricultural sciences	30.0	19.0	19.0	13.0	2.0	1.0	3.0	1.0	2.0	1.0	4.0	3.0
_												
Tertiary education	2895.6	1487.5	2424.5	1194.7	109.7	64.7	249.5	166.2	31.0	15.5	80.9	46.5
Natural sciences	415.4	234.3	368.4	209.3	13.0	6.0	27.0	15.0	5.0	3.0	2.0	1.0
Engineering and technology	840.2	315.5	674.7	222.5	43.3	23.3	69.7	42.7	5.0	3.5	47.5	23.5
Medical and health sciences	487.0	277.0	443.3	249.8	25.8	16.8	18.0	10.5	-	-	-	-
Agricultural sciences	47.0	21.0	40.0	15.0	-	-	5.0	5.0	-	-	2.0	1.0
Social sciences	589.5	300.7	482.3	234.7	6.0	3.0	70.8	48.0	21.0	9.0	9.4	6.0
Humanities	516.5	339.0	415.9	263.4	21.6	15.6	59.0	45.0	-	-	20.0	15.0
Region Šumadije i Zapadne Srbije	1223.6	631.1	910.1	467.1	79.4	34.4	168.0	98.2	33.0	13.0	33.1	18.5
Natural sciences	225.6	132.5	170.6	107.5	13.0	6.0	32.0	15.0	5.0	3.0	5.0	1.0
Engineering and technology	312.0	89.1	211.3	57.9	35.0	10.0	36.0	11.7	17.0	2.0	12.7	7.5
Medical and health sciences	134.1	77.4	103.4	60.2	12.8	6.8	18.0	10.5	-	-	-	-
Agricultural sciences	78.0	40.0	59.0	28.0	2.0	1.0	9.0	6.0	2.0	1.0	6.0	4.0
Social sciences	291.6	162.7	220.2	110.7	4.0	2.0	49.0	37.0	9.0	7.0	9.4	6.0
Humanities	182.3	129.4	145.7	102.8	12.6	8.6	24.0	18.0	-	-	-	-
Business sector	120.0	32.8	30.3	11.6	30.0	8.0	39.5	11.2	17.0	2.0	3.2	_
Natural sciences	12.0	3.0	4.0	3.0	30.0	0.0	5.0	- 11.2	17.0	-	3.0	
Engineering and technology	107.0	29.8	26.3	8.6	30.0	8.0	33.5	11.2	17.0	2.0	0.2	_
Agricultural sciences	1.0	-	-	-	-	-	1.0	-	-	-	-	-
Government sector	30.0	19.0	19.0	13.0	2.0	1.0	3.0	1.0	2.0	1.0	4.0	3.0
Agricultural sciences	30.0	19.0	19.0	13.0	2.0	1.0	3.0	1.0	2.0	1.0	4.0	3.0
Tertiary education	1073.6	579.3	860.8	442.5	47.4	25.4	125.5	86.0	14.0	10.0	25.9	15.5
				104.5	13.0	2 5.4 6.0	27.0		5.0	3.0	23.9	
Natural sciences	213.6	129.5 59.3	166.6 185.0	49.3	5.0	2.0	27.0	15.0 0.5	5.0	3.0	12.5	1.0 7.5
Engineering and technology	134.1	77.4	103.4	60.2	12.8	6.8	18.0	10.5	-	-		7.5
Medical and health sciences					12.0	0.0			-		-	1.0
Agricultural sciences	47.0	21.0	40.0	15.0			5.0	5.0	-	-	2.0	1.0
Social sciences Humanities	291.6 182.3	162.7 129.4	220.2 145.7	110.7 102.8	4.0 12.6	2.0 8.6	49.0 24.0	37.0 18.0	9.0	7.0	9.4	6.0
Tumanics												
Region Južne i Istočne Srbije	2208.6	1079.2	1659.0	804.2	118.3	57.3	184.1	119.2	29.2	7.5	218.0	91.0
Natural sciences	201.8	104.8	201.8	104.8	- 04.0	-	400.0	-	47.0	-	470.0	67.0
Engineering and technology	953.6	394.2	571.0	220.2	81.3	33.3	108.3	68.2	17.0	5.5	176.0	67.0
Medical and health sciences	352.9	199.6	339.9	189.6	13.0	10.0	-	-	-	-	-	-
Agricultural sciences	66.0	31.0	14.0	5.0	11.0	4.0	19.0	13.0	-	-	22.0	9.0
Social sciences	300.1	140.0	262.1	124.0	4.0	3.0	21.8	11.0	12.2	2.0	-	45.0
Humanities	334.2	209.6	270.2	160.6	9.0	7.0	35.0	27.0	-	-	20.0	15.0
Business sector	192.6	61.0	51.3	22.0	33.0	7.0	36.1	18.0	12.2	2.0	60.0	12.0
Engineering and technology	124.4	28.0	37.3	17.0	20.0	1.0	17.1	5.0	12.0	2.0	38.0	3.0
Agricultural sciences	66.0	31.0	14.0	5.0	11.0	4.0	19.0	13.0	-	-	22.0	9.0
Social sciences	2.2	2.0	-	-	2.0	2.0	-	-	0.2	-	-	-
Government sector	194.0	110.0	44.0	30.0	23.0	11.0	24.0	21.0	_	_	103.0	48.0
Engineering and technology	194.0	110.0	44.0	30.0	23.0	11.0	24.0	21.0	-	-	103.0	48.0
Tertiary education	1822.0	908.2	1563.7	752.2	62.3	39.3	124.0	80.2	17.0	5.5	55.0	31.0
Natural sciences	201.8	104.8	201.8	104.8	-	-	-	-	-	-	-	-
Engineering and technology	635.2	256.2	489.7	173.2	38.3	21.3	67.2	42.2	5.0	3.5	35.0	16.0
Medical and health sciences	352.9	199.6	339.9	189.6	13.0	10.0	-	-	-	-	-	-
Social sciences	297.9	138.0	262.1	124.0	2.0	1.0	21.8	11.0	12.0	2.0	-	-
Humanities	334.2	209.6	270.2	160.6	9.0	7.0	35.0	27.0	-	-	20.0	15.0
Region Kosovo i Metohija												
		•••		•••	•••	•••		•••		•••		

				Full-tim	e and par	t-time rease	earchers			
	To	otal	Doctors	of science	Masters	of science	Spec	cialists	Universi	ity degree
	All	Women	All	Women	All	Women	All	Women	All	Women
REPUBLIC OF SERBIA Natural sciences Engineering and technology Medical and health sciences Agricultural sciences	16338 4035 4314 2388 1167	8044 2061 1648 1422 577	10176 2299 2454 1675 871	4862 1224 855 954 409	1818 437 320 219 90	1037 274 138 153 43	352 118 190 22 3	180 91 66 13 3	3992 1181 1350 472 203	1965 472 589 302 122
Social sciences Humanities	3022 1412	1549 787	2045 832	961 459	469 283	279 150	14 5	4 3	494 292	305 175
Business sector Natural sciences Computer and information sciences Chemical sciences	1465 640 473 42	495 151 92 24	256 40 15	95 14 - 6	119 46 27	59 22 - 18	47 - - -	16 - - -	1043 554 473	325 115 92
Earth and related environmental sciences Other natural sciences Engineering and technology Civil engineering	3 122 765 3	1 34 309 1	3 22 184	1 7 66	19 58	4 26	- - 47 -	- 16 -	81 476 3	23 201 1
Electrical engineering, electronic engineering and information engineering Mechanical engineering Chemical engineering Materials engineering	269 93 227 51	91 24 125 22	62 31 32 23	15 13 19 10	32 5 14 2	13 3 7	14 19 - 8	5 5 - 3	161 38 181 18	58 3 99 9
Medical engineering Environmental engineering Environmental biotechnology Other technologies and engineering	18 45 1 58	5 15 1 25	8 19 - 9	2 4 - 3	1 3 - 1	- 2 - 1	2 - 4	- - 3	9 21 1 44	3 9 1 18
Agricultural sciences Agriculture, forestry and fishery Agricultural biotechnology Other agricultural sciences Social sciences	24 3 20 1 36	8 2 6 - 27	15 - 15 - 17	4 - 4 - 11	7 2 5 - 8	4 2 2 - 7	-	- - -	2 1 - 1 11	- - - 9
Economics and business Other social sciences Government sector	15 21 3236	10 17 1851	9 8 2107	5 6 1160	6 2 549	5 2 352	- 189	- - 121	11 391	- 9 218
Natural sciences Mathematics Physical sciences Earth and related environmental sciences	1543 262 678 35	953 149 360 21	1001 186 387 15	593 89 197 5	228 76 31 20	175 60 16 16	115 - 115	89 - 89 -	199 - 145 -	96 - 58 -
Biological sciences Other natural sciences Engineering and technology Civil engineering Electrical engineering, electronic engineering and	404 164 603 24	336 87 275 17	305 108 359 15	255 47 152 10	80 21 90 6	70 13 38 4	72 -	30	19 35 82 3	11 27 55 3
information engineering Materials engineering Environmental biotechnology Industrial biotechnology	333 41 115 29	115 20 66 18	207 22 71 20	73 8 37 10	29 9 26 2	4 4 14 1	68 1 2	27 1 2	29 10 17 5	11 8 14 5
Other technologies and engineering Medical and health sciences Basic medicine Other medical sciences Agricultural sciences	61 141 45 96 351	39 103 30 73 203	24 87 30 57 272	14 62 20 42 159	18 43 15 28 41	11 32 10 22 20	1 1 - 1 1	1 - 1 1	18 10 - 10 37	14 8 - 8 23
Agriculture, forestry and fishery Veterinary sciences Agricultural biotechnology Other agricultural sciences Social sciences	14 51 201 85 247	9 27 114 53 119	10 35 159 68 166	8 19 89 43 73	4 16 15 6 52	1 8 7 4 30	- 1 -	1	26 11 29	- 17 6 16
Psychology Economics and business Sociology Law	37 49 22 26	19 27 7 16	29 27 17 14	14 12 5 8	1 15 - 10	11 - 8	- - - -	- - -	7 7 5 2	5 4 2 -
Political science Other social science Humanities History and archeology Languages and literature	85 28 351 175	28 22 198 75 71	58 21 222 119 43	16 18 121 51 31	24 2 95 37 38	10 1 57 15 29	- - -	- - -	3 5 34 19 15	2 3 20 9 11
Art (art, history of arts, performing arts, music) Other humanities Tertiary education	96 26 54 11630	13 39 5694	15 45 7812	7 32 3606	11 9 1144	6 7 623	116	- - 43	2558	1422
Natural sciences Mathematics Computer and information sciences Physical sciences	1852 946 271 82	957 523 121 25	1258 604 189 60	617 323 83 17	163 27 64 22	77 13 32 8	3 2 - -	2 1 - -	428 313 18	261 186 6
Chemical sciences Earth and related environmental sciences Biological sciences Other natural sciences Engineering and technology Civil engineering	144 94 165 150 2942 330	74 51 102 61 1062 129	118 60 116 111 1911 173	58 29 66 41 637 70	12 6 - 32 168 42	7 3 - 14 72 21	- - 1 71	- - 1 20	14 28 49 6 792 115	9 19 36 5 333 38
Electrical engineering, electronic engineering and information engineering Mechanical engineering Chemical engineering Environmental engineering Other technologies and engineering	1300 401 360 201 350	381 85 236 87 144	770 275 274 161 258	212 50 168 49 88	73 14 7 8 24	25 5 4 5 12	- 71 - -	20 - - -	457 41 79 32 68	144 10 64 33 44



				Full-tim	e and par	t-time rease	archers			
	Te	otal	Doctors	of science	Masters	of science	Spec	ialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Medical and health sciences	2247	1319	1588	892	176	121	21	12	462	294
Basic medicine	1292	731	944	511	121	83	16	12 9	211	128
Other medical sciences Agricultural sciences	955 792	588 366	644 584	381 246	55 42	38 19	5 2	3 2	251 164	166 99
Agriculture, forestry and fishery	374	167	267	110	28	12	1	1	78	44
Veterinary sciences Agricultural biotechnology	121 23	60 4	83 20	38 3	3	1	-	-	38	22
Other agricultural sciences	274	135	214	95	11	6	1	1	48	33
Social sciences Psychology	2736 81	1401 46	1861 58	876 25	407	241	14	4	454 23	280 21
Economics and business	875	439	633	275	92	64	-	-	150	100
Educational sciences Law	730 384	363 152	352 315	173 113	184 10	90 7	2 10	1 3	192 49	99 29
Political sciences	137	61	88	32	41	24	2	-	6	5
Media and communications Other social sciences	33 496	20 320	27 388	17 241	6 74	3 53	-	-	34	26
Humanities	1061	589	610	338	188	93	5	3	258	155
Languages and literature	362	244	214	139	53	28	-	-	95	77
Phylosophy, ethics and religion Art (arts, history of arts, performing arts, music)	447 199	220 102	298 59	134 43	65 67	34 31	- 5	3	84 68	52 25
Other humanities	53	23	39	22	3	-	-	-	11	1
Non-profit sector	7	4	1	1	6	3	-	-	-	-
Engineering and technology Other technologies and engineeering	4 4	2 2	-	-	4 4	2 2	-	-	-	-
Social sciences	3	2	1	1	2	1	-	-	-	-
Economic and business Law	2	1 1	1	1	1 1	- 1	-	-	-	-
SRBIJA – SEVER	13401	6587	8248	3968	1535	890	330	168	3288	1561
Natural sciences	3658	1847	2048	1086	433	272	116	90	1061	399
Engineering and technology	3425	1328	1887	671	221	97	188	65	1129	495
Medical and health sciences Agricultural sciences	1754 1094	1070 544	1209 812	697 381	205 83	146 40	6	4	334 196	223 120
Social sciences	2487	1279	1644	782	429	248	14	4	400	245
Humanities	983	519	648	351	164	87	3	2	168	79
Business sector Natural sciences	1375 636	455 148	228 39	86 14	109 46	56 22	46	15	992 551	298 112
Computer and information sciences	473	92	-	-	-	-	-	-	473	92
Chemical sciences Earth and related environmental sciences	42	24 1	15 3	6 1	27	18	-	-	-	-
Other natural sciences	118	31	21	7	19	4	-	-	78	20
Engineering and technology Civil engineering	693	277 1	167	60	52	25	46	15	428 3	177 1
Electrical engineering, electronic engineering and	3	į	-	-	-	-	-	-	3	'
information engineering Mechanical engineering	239 93	80 24	54 31	11 13	28 5	13 3	14 19	5 5	143 38	51 3
Chemical engineering	227	125	32	19	14	7	-	-	181	99
Materials engineering	49 45	21	23	10	2	2	8 2	3	16 21	8
Environmental engineering Environmental biotechnology	1 45	15 1	19	4	- -	-	-	-	1	1
Other technologies and engineering	36	10	8	3	-	-	3	2	25	5
Agricultural sciences Agriculture, forestry and fisheries	10	3 2	5	1	3 2	2 2	-	-	2 1	-
Agricultural biotechnology	6	1	5	1	1	-	-	-		-
Other agricultural sciences Social sciences	36	27	17	11	8	7	-	-	1 11	9
Economics and business	15	10	9	5	6	5	-	-	-	-
Other social sciences	21	17	8	6	2	2	-	-	11	9
Government sector Natural sciences	3173 1543	1808 953	2075 1001	1139 593	537 228	344 175	188 115	121 89	373 199	204 96
Mathematics	262	149	186	89	76	60	-	-	-	-
Physical sciences Earth and related environmental sciences	678 35	360 21	387 15	197 5	31 20	16 16	115	89	145	58
Biological sciences	404	336	305	255	80	70	-	-	19	11
Other natural sciences	164 559	87 245	108 345	47 143	21 79	13 31	- 71	30	35 64	27 41
Engineering and technology Civil engineering	24	17	15	143	6	4	-	-	3	3
Electrical engineering, electronic engineering and	200	445	207	70	20	4	60	07	20	44
information engineering Materials engineering	333 41	115 20	207 22	73 8	29 9	4 4	68	27	29 10	11 8
Environmental biotechnology	115	66	71	37	26	14	1	1	17	14
Industrial biotechnology Other technologies and engineering	29 17	18 9	20 10	10 5	2 7	1 4	2	2	5	5
Medical and health sciences	141	103	87	62	43	32	1	1	10	8
Basic medicines Other medical science	45 96	30 73	30 57	20 42	15 28	10 22	- 1	- 1	10	8
Agricultural sciences	332	190	254	147	40	19	i	i	37	23
Agriculture, forestry and fisheries	14	9 27	10	8	4 16	1 8	-	-	-	-
Veterinary sciences Agricultural biotechnology	51 201	114	35 159	19 89	16	8 7	1	1	26	17
Other agricultural sciences	66	40	50	31	5	3	-	-	11	6
Social sciences Psychology	247 37	119 19	166 29	73 14	52 1	30	-	-	29 7	16 5
Economics and business	49	27	27	12	15	11	-	-	7 5	4
Sociology	22	7	17	5						2

(head count) (continued)				Full-tim	e and par	t-time rease	archers			
	To	otal	Doctors			of science		ialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Political sciences Other social sciences Humanities	85 28 351	28 22 198	58 21 222	16 18 121	24 2 95	10 1 57	- - -		3 5 34	2 3 20
History and archeology Languages and literature Arts (arts, history of arts, performing arts, music) Other humanities	175 96 26 54	75 71 13 39	119 43 15 45	51 31 7 32	37 38 11 9	15 29 6 7	-	- - -	19 15 -	9 11 - -
Tertiary education Natural sciences Mathematics Computer and information sciences Physical sciences Chemical sciences Earth and related environmental sciences Biological sciences Other natural sciences Engineering and technology	8846 1479 573 271 82 144 94 165 150 2169	4320 746 312 121 25 74 51 102 61 804	5944 1008 354 189 60 118 60 116 111	2742 479 185 83 17 58 29 66 41 468	883 159 23 64 22 12 6	487 75 11 32 8 7 3	96 1 - - - - 1 71	32 1 - - - - 1 20	1923 311 196 18 - 14 28 49 6	1059 191 116 6 - 9 19 36 5 277
Civil engineering Electrical engineering, electronic engineering and information engineering Mechanical engineering Chemical engineering Environmental engineering Other technologies and engineering Medical and health sciences Basic medicine Other medical sciences Agricultural sciences Agricultural sciences Agricultural sciences Agricultural biotechnology Other agricultural sciences Social sciences Psychology Economics and business Educational sciences Law Political sciences Media and communications Other social sciences Humanities Languages and literature Phylosophy, ethics and religion Arts (arts, history of arts, performing arts, music) Other humanities Non-profit sector Engineering and technology Other technologies and engineering Social sciences Economics and business	245 1000 249 307 146 222 1613 658 955 752 334 1211 23 274 2201 81 627 600 279 137 33 444 632 210 276 93 53 7 4 4 3 2 1 1	92 294 58 214 62 84 967 379 588 351 152 60 4 135 1131 46 307 298 321 138 108 109 282 321 138 138 138 138 148 148 158 158 158 158 158 158 158 15	134 540 176 231 173 171 1122 478 644 553 236 83 30 214 148 256 226 88 27 357 426 172 180 35 39 1	555 1388 366 1511 322 566 6355 2554 3811 2333 977 388 3895 6977 225 1900 1300 855 322 177 2188 2230 1113 677 288 222 11 1 1	11 54 2 5 14 162 107 55 40 26 3 11 367 70 176 8 41 6 66 69 3 3 10 3 10 10 10 10 10 10 10 10 10 10	5 20 2 4 8 114 76 38 19 12 1 6 210 44 85 6 24 3 48 30 3 22 5 - 3 2 2 1 - 1	71	20	100 406 - 71 23 37 324 73 251 157 71 38 360 23 109 166 355 6 - 21 134 35 43 45 11	32 136 - 59 30 215 49 166 97 42 22 21 73 82 23 5 - 16 59 22 19 17 1
Law Beogradski region Natural sciences Engineering and technology Medical and earth sciences Agricultural sciences Social sciences Humanities Business sector Natural sciences Computer and information sciences Chemical sciences Earth and related environmental sciences Other natural sciences Engineering and technology Civil engineering	9142 2764 2106 1105 748 1478 941 768 180 17 42 3 118 545 3	4632 1501 817 691 384 736 503 309 66 10 24 1 31 213	5976 1754 1213 7660 1063 619 218 39 - 15 3 21 160	2887 914 431 453 277 476 336 86 14 - 6 1 7 60	1167 421 1355 165 58 2266 162 100 466 27 - 19 43	692 267 61 115 25 137 87 53 22 - 18 4 22	312 116 187 1 3 2 3 3 46 - - - - 46	160 90 64 1 3 - 2 15 - - - 15	1687 473 571 172 127 187 157 404 95 17 - 78 296 3	893 230 261 122 79 123 78 155 30 10
Electrical engineering, electronic engineering and information engineering Mechanical engineering Chemical engineering Chemical engineering Environmental engineering Environmental biotechnology Other technologies and engineering Agricultural sciences Agricultural forestry and fisheries Agricultural biotechnology Other agricultural sciences Social science Economics and business Other social sciences	239 91 83 47 45 1 36 7 3 3 1 36 15 21	80 24 61 21 15 1 10 3 2 1 - 27 10 17	54 31 26 22 19 - 8 2 - 2 - 17 9 8	11 13 19 10 4 - 3 1 - 1 1 5 6	28 5 5 2 3 - - 3 2 1 - 8 6 2	13 3 4 - 2 - 2 2 - 7 5 2	14 19 - 8 2 - 3 - -	5 5 - 3 - - 2 - -	143 36 52 15 21 1 25 2 1	51 338 8 9 1 5



				Full-tim	e and par	t-time rease	archers			
	То	otal	Doctors of	of science	Masters	of science	Spec	ialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Government sector	2947	1687	1905	1055	497	321	187	120	358	191
Natural sciences Mathematics	1543 262	953 149	1001 186	593 89	228 76	175 60	115	89	199	96
Physical sciences	678	360	387	197	31	16	115	89	145	58
Earth and environmental sciences Biological sciences	35 404	21 336	15 305	5 255	20 80	16 70	-	-	- 19	11
Other natural sciences	164	87	108	47	21	13			35	27
Engineering and technology Civil engineering	461 24	189 17	277 15	108 10	59 6	20 4	70	29	55 3	32 3
Electrical engineering, electronic engineering and										
information engineering Materials engineering	333 41	115 20	207 22	73 8	29 9	4 4	68	27	29 10	11 8
Environmental biotechnology	34	19	13	7	13	7	-	-	8	5
Industrial biotechnology Medical and health sciences	29 141	18 103	20 87	10 62	2 43	1 32	2	2 1	5 10	5
Basic medicine	45	30	30	20	15	10	-	-	-	-
Other medical sciences Agricultural sciences	96 204	73 125	57 152	42 98	28 20	22 7	1 1	1 1	10 31	8 19
Agriculture, forestry and fisheries	14	9	10	8	4	1	-	-	-	-
Veterinary science Agricultural biotechnology	18 106	10 66	12 80	8 51	6 5	2 1	1	- 1	20	13
Other agricultural sciences	66	40	50	31	5	3	-		11	6
Social sciences	247 37	119 19	166 29	73 14	52 1	30	-	-	29 7	16 5
Psychology Economics and business	49	27	29	12	15	11	-	-	7	4
Sociology	22 26	7	17 14	5 8	10	- 8	-	-	5 2	2
Law Political sciences	85	16 28	58	16	24	0 10	-	-	3	2
Other social sciences	28	22	21	18	2	_1	-	-	5	3
Humanities History and archeology	351 175	198 75	222 119	121 51	95 37	57 15	-	-	34 19	20 9
Languages and literature	96	71	43	31	38	29	-	-	15	11
Arts (arts, history of arts, performing arts, music) Other humanities	26 54	13 39	15 45	7 32	11 9	6 7	-	-	-	-
Tertiary education	5420	2632	3852	1745	564	315	79	25	925	547
Natural sciences	1041	482	714	307	147	70	1	1	179	104
Mathematics Computer and information engineering	179 271	75 121	89 189	29 83	13 64	6 32	-	-	77 18	40 6
Physical sciences	82	25	60	17	22	8	-	-	-	-
Chemical sciences Earth and environmental sciences	144 50	74 24	118 31	58 13	12 4	7 3	_	-	14 15	9 8
Biological sciences	165	102	116	66	-	-	-	-	49	36
Other natural sciences Engineering and technology	150 1096	61 413	111 776	41 263	32 29	14 17	1 71	1 20	6 220	5 113
Civili engineering	208	80	134	55	4	2	-		70	23
Electrical engineering, electronic engineering and information engineering	187	45	111	23	10	6	_	_	66	16
Mechanical engineering	249	58	176	36	2	2	71	20	-	-
Chemical engineering Environmental engineering	152 146	103 62	123 123	77 32	3	2	-	-	26 23	24 30
Other technologies and engineering	154	65	109	40	10	5	-	-	35	20
Medical and health sciences Basic medicine	964 658	588 379	680 478	391 254	122 107	83 76	-	-	162 73	114 49
Other medical sciences	306	209	202	137	15	7	-	-	89	65
Agricultural sciences Agriculture, forestry and fisheries	537 119	256 57	406 89	178 42	35 21	16 9	2 1	2 1	94 8	60 5
Veterinary science	121	60	83	38	-	-	-	-	38	22
Agricultural biotechnology Other agricultural sciences	23 274	4 135	20 214	3 95	3 11	1 6	1	- 1	- 48	33
Social sciences	1192	588	879	391	164	99	2	-	147	98
Economics and business Educational sciences	473 231	232 112	351 156	154 70	53 45	34 22	-	-	69 30	44 20
Law	166	71	137	52	8	6	-	-	21	13
Political sciences Media and communications	137	61 20	88 27	32 17	41 6	24 3	2	-	6	5
Other social sciences	152	92	120	66	11	10	-	-	21	16
Humanities Languages and literature	590 210	305 138	397 172	215 113	67 3	30 3	3	2	123 35	58 22
Phylosophy, ethics and religion	276	108	180	67	53	22	-	-	43	19
Arts (arts, history of arts, performing arts, music) Other humanities	93	52 7	35 10	28 7	10 1	5	3	2	45	17
Non-profit sector	7	4	10	1	6	3	_	-	-	-
Engineering and technology	4	2			4	2	_	-	-	-
Other technologies and engineering Social sciences	4 3	2 2	- 1	- 1	4 2	2 1	-	_	-	-
Economics and business	2	1	1	1	1	-	-	-	-	-
Law	1	1	-	-	1	1	-	-	-	-
egion Vojvodine	4259	1955	2272	1081	368	198	18	8	1601	668
Natural sciences	894	346 511	294 674	172 240	12 86	5	- 1	1	588	169
Engineering and technology Medical and health sciences	1319	379	442	244	40	36 31	5	3	558 162	234 101
Agricultural sciences Social sciences	346	160 543	252 581	104	25	15 111	- 12	- 4	69 213	41 122
OUGIAI SCIENCES	1009	543	581	306	203	111	12	4	/13	1//

				Full-tim	e and par	t-time rease	archers			
	Т	otal	Doctors	of science	Masters	of science	Spec	cialists	Univers	ity degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Business sector	607	146	10	-	9	3	_	-	588	143
Natural sciences Computer and information sciences	456 456	82 82	-	-	-	-	-	-	456 456	82 82
Engineering and technology	148	64	7	-	9	3	-	-	132	61
Mechanical engineering	144	64	- 6	-	9	3	-	-	2 129	- 61
Chemical engineering Materials engineering	2	-	1		-	-	-	-	129	-
Agricultural sciences	3 3	-	3	-	-	-	-	-	-	-
Agricultural biotechnology Government sector	226	121	ა 170	84	40	23	1	1	15	13
Engineering and technology	98	56	68	35	20	11	1	i	9	9
Environmental biotechnology Other technologies and engineering	81 17	47 9	58 10	30 5	13 7	7 4	1	1	9	9
Agricultural sciences	128	65	102	49	20	12	-	-	6	4
Veterinary sciences	33 95	17 48	23 79	11 38	10 10	6 6	-	-	- 6	4
Agricultural biotechnology Tertiary education	3426	1688	2092	997	319	172	17	7	998	512
Natural sciences	438	264	294	172	12	5	- '-	-	132	87
Mathematics Earth and related environmental sciences	394 44	237 27	265 29	156 16	10 2	5	-	-	119 13	76 11
Engineering and technology	1073	391	599	205	57	22	_	-	417	164
Civil engineering Electrical engineering, electronic engineering and	37	12	-	-	7	3	-	-	30	9
information engineering	813	249	429	115	44	14	-	-	340	120
Chemical engineering Other technologies and engineering	155 68	111 19	108 62	74 16	2 4	2 3	-	-	45 2	35
Medical and health sciences	649	379	442	244	40	31	5	3	162	101
Other medical sciences	649 215	379 95	442 147	244 55	40 5	31 3	5	3	162 63	101 37
Agricultural sciences Agriculture, forestry and fisheries	215	95 95	147	55	5	3	-	-	63	37
Social sciences	1009	543	581	306	203	111	12	4	213	122
Psychology Economics and business	81 154	46 75	58 97	25 36	17	10	-	-	23 40	21 29
Educational sciences	369	186	100	60	131	63	2	1	136	62
Law Other social sciences	113 292	46 190	89 237	33 152	- 55	38	10	3 -	14	10
Humanities	42	16	29	15	2	-	-	-	11	1
Other humanities	42	16	29	15	2	-	-	-	11	1
SRBIJA – JUG Natural sciences	2937 377	1457 214	1928 251	894 138	283 4	147 2	22 2	12 1	704 120	404 73
Engineering and technology	889	320	567	184	99	41	2	i	221	94
Medical and health sciences Agricultural sciences	634 73	352 33	466 59	257 28	14 7	7 3	16	9	138 7	79 2
Social sciences	535	270	401	179	40	31	-	-	94	60
Humanities	429	268	184	108	119	63	2	1	124	96
Business sector Natural sciences	90	40 3	28 1	9	10	3	1	1	51 3	27 3
Other natural sciences	4	3	1	-	-	-	-	.	3	3
Engineering and technology Electrical engineering, electronic engineering and	72	32	17	6	6	1	1	1	48	24
information engineering	30	11	8	4	4	-	-	-	18	7
Materials engineering Medical engineering	18	1 5	- 8	2	- 1	-	-	-	2 9	1 3
Other technologies and engineering	22	15	1	-	1	1	1	1	19	13
Agricultural sciences Agricultural biotechnology	14 14	5 5	10 10	3 3	4 4	2 2	-	-	-	-
Government sector	63	43	32	21	12	8	1	_	18	14
Engineering and technology	44	30	14	9	11	7	1	-	18	14
Other technologies and engineering Agricultural sciences	44 19	30 13	14 18	9 12	11 1	7 1	1	-	18	14 -
Other agricultural sciences	19	13	18	12	1	1	-	-	-	-
Tertiary education	2784	1374	1868	864	261	136	20	11	635	363
Natural sciences Mathematics	373 373	211 211	250 250	138 138	4	2 2	2	1 1	117 117	70 70
Engineering and technology	773	258	536	169	82	33	-	-	155	56
Civil engineering Electrical engineering, electronic engineering and	85	37	39	15	31	16	-	-	15	6
information engineering	300	87	230 99	74	19	5 3	-	-	51	8
Mechanical engineering Chemical engineering	152 53	27 22	43	14 17	12 2	- -	-	-	41 8	10 5
Environmental engineering	55	25	38	17	8	5	-	-	9	3
Other technologies and engineering Medical and health sciences	128 634	60 352	87 466	32 257	10 14	4 7	16	9	31 138	24 79
Basic medicine	634	352	466	257	14	7	16	9	138	79
Agricultural sciences Agriculture, forestry and fisheries	40 40	15 15	31 31	13 13	2 2	-	-	-	7 7	2 2
Social sciences	535	270	401	179	40	31	-	-	94	60
Economics and business Educational sciences	248 130	132 65	185 96	85 43	22 8	20 5	-	-	41 26	27 17
Law	105	35	89	28	2	1	-	-	14	6
Other social sciences Humanities	52 429	38 268	31 184	23 108	8 119	5 63	2	- 1	13 124	10 96
Languages and literature	152	106	42	26	50	25	-	-	60	55
Phylosophy, ethics and religion Arts (arts, history of arts, performing arts, music)	171 106	112 50	118 24	67 15	12 57	12 26	2	1	41 23	33 8

				Full-tim	e and par	t-time rease	archers			
	To	otal	Doctors	of science	Masters	of science	Spec	cialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Womer
agion Šumadija i Zanadna Srbija	1212	622	736	350	100	E 2	16		260	244
egion Sumadije i Zapadne Srbije Natural sciences	1212 175	109	111	350 65	100 3	52 2	16	9	360 61	211 42
Engineering and technology	282	86	176	50	18	8	_	_	88	28
Medical and health sciences	292	161	173	92	9	5	16	9	94	55
Agricultural sciences	59	28	49	25	3	1	-	-	7	2
Social sciences	252	132	185	92	17	11	-	-	50	29
Humanities	152	106	42	26	50	25	-	-	60	55
Business sector	38	18	9	2	1	-	-	-	28	16
Natural sciences	4	3	1	-	-	-	-	-	3	3
Other natural sciences	4	3	1	-	-	-	-	-	3	3
Engineering and technology	34	15	8	2	1	-	-	-	25	13
Materials engineering	2	1	-	-	-	-	-	-	2	1
Medical engineering	18 14	5 9	8	2	1	-	-	-	9 14	3
Other technologies and engineering			-	-	-		-	-	14	9
Government sector	19	13	18	12	1	1	-	-	-	-
Agricultural sciences	19	13	18	12	1	1	-	-	-	-
Other agricultural sciences	19	13	18	12	1	1	-	-	-	-
Tertiary education	1155	591	709	336	98	51	16	9	332	195
Natural sciences	171	106	110	65	3	2	-	-	58	39
Mathematics	171	106	110	65	3	2	-	-	58	39
Engineering and technology	248	71	168	48	17	8	-	-	63	15
Electrical engineering, electronic engineering and information engineering	158	44	116	36	5	2			37	6
nformation engineering Mechanical engineering	49	9	27	2	5	2	-	-	37 17	5
Other technologies and engineering	49	18	25	10	7	4	-	-	9	2
Medical and health sciences	292	161	173	92	9	5	16	9	94	55
Basic medicine	292	161	173	92	9	5	16	9	94	55
Agricultural sciences	40	15	31	13	2	-	-	-	7	2
Agriculture, forestry and fisheries	40	15	31	13	2	-	-	-	7	2
Social sciences	252	132	185	92	17	11	-	-	50	29
Economic and business	128	63	95	43	4	4	-	-	29	16
Educational sciences	43	24	33	19	4	2	-	-	6	3
Law	29	7	26	7	1	-	-	-	2	
Other social sciences	52	38	31	23	8	5	-	-	13	10
Humanities	152	106	42	26	50	25	-	-	60	55
Languages and literature	152	106	42	26	50	25	-	-	60	55
egion Južne i Istočne Srbije	1725	835	1192	544	183	95	6	3	344	193
Natural sciences	202	105	140	73	1	-	2	1	59	31
Engineering and technology	607	234	391	134	81	33	2	1	133	66
Medical and health sciences	342	191	293	165	5	2	-	_	44	24
Agricultural sciences	14	5	10	3	4	2	-	-	-	
Social sciences	283	138	216	87	23	20	-	-	44	31
Humanities	277	162	142	82	69	38	2	1	64	41
Business sector	52	22	19	7	9	3	1	1	23	11
Engineering and technologies	38	17	9	4	5	1	1	1	23	11
Electrical engineering, electronic engineering and										
nformation engineering	30	11	8	4	4	-	-	-	18	7
Other technologies and engineering	8	6	1	-	1	1	1	1	5	
Agricultural sciences	14	5	10	3	4	2	-	-	-	
Agricultural biotechnology	14	5	10	3	4	2	-	-	-	
Government sector	44	30	14	9	11	7	1	-	18	14
Engineering and technology	44	30	14	9	11	7	1	-	18	14
Other technology and engineering	44	30	14	9	11	7	1	-	18	14
Tertiary education	1629	783	1159	528	163	85	4	2	303	168
Natural sciences	202	105	140	73	1	-	2	1	59	3.
Mathematics	202	105	140	73	1	-	2	1	59	3
Engineering and technology	525	187	368	121	65	25	-	-	92	4
Civil engineering	85	37	39	15	31	16	-	-	15	
Electrical engineering, electronic engineering and										
nformation engineering	142	43	114	38	14	3	-	-	14	
Mechanical engineering	103	18	72	12	7	1	-	-	24	
Chemical engineering	53	22	43	17	2	-	-	-	8	
Environmental engineering	55	25 42	38	17	8	5	-	-	9	2
Other technologies and engineering Medical and health sciences	87 342	42 191	62 293	22 165	3 5	2	-	-	22 44	2 2
viedicai and neaith sciences Basic medicines	342	191	293	165	5	2	-	-	44 44	2
Social sciences	283	138	293	87	23	20	-	-	44	3
Economics and business	120	69	90	42	18	16	-	-	12	1
ducational sciences	87	41	63	24	4	3	-	_	20	1
_aw	76	28	63	21	1	1	_	_	12	
lumanities	277	162	142	82	69	38	2	1	64	4
Phylosophy, ethics and religion	171	112	118	67	12	12	-	-	41	3
Arts (arts, history of arts, performing arts, music)	106	50	24	15	57	26	2	1	23	{
egion Kosovo i Metohija										

				Full-tim	ne and par	t-time resea	archers			
	To	otal	Doctors of	of science	Masters	of science	Spec	cialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
REPUBLIC OF SERBIA Natural sciences Engineering and technology Medical and health sciences Agricultural sciences Social sciences	14656.7 3832.2 3902.1 1680.1 1127.3 2748.7	7201.2 1976.5 1489.8 1002.5 558.4 1403.8	9010.6 2145.1 2174.8 1179.4 835.9 1858.1	4290.6 1160.5 749.5 665.1 392.7 872.5	1711.8 424.5 300.8 170.1 90.0 442.3	983.1 270.0 130.7 121.6 43.0 261.5	287.7 118.0 143.2 10.0 3.0 8.5	152.9 91.0 47.1 6.3 3.0 2.5	3646.6 1144.6 1283.3 320.6 198.4 439.8	1774.6 455.0 562.5 209.6 119.7 267.3
Humanities Business sector Natural sciences Computer and information sciences	1366.3 1405.5 627.9 461.8	770.2 478.0 150.2 91.5	817.3 245.3 39.1	450.4 90.1 13.7	284.1 117.3 46.0	156.3 58.6 22.0	5.0 47.0	3.0 16.0	259.9 996.0 542.8 461.8	160.5 313.3 114.5 91.5
Chemical sciences Earth and related environmental sciences Other natural sciences	42.0 2.1 122.0	24.0 0.7 34.0	15.0 2.1 22.0	6.0 0.7 7.0	27.0	18.0 - 4.0	- - -	- - -	401.8 - 81.0	23.0
Engineering and technology Civil engineering Electrical engineering, electronic engineering and	721.8 3.0 248.0	296.6 1.0 85.5	176.6 - 50.5	63.6 - 13.6	56.7 - 30.7	26.0	47.0 - 14.0	16.0	441.6 3.0 152.8	191.0 1.0 53.9
information engineering Mechanical engineering Chemical engineering Materials engineering Medical engineering Environmental engineering Environmental biotechnology	79.9 227.0 50.4 21.6 45.0	23.5 125.0 22.0 5.9 15.0	31.0 32.0 22.9 12.2 19.0	13.0 19.0 10.0 1.0 4.0	5.0 14.0 2.0 1.0 3.0	3.0 7.0 - - 2.0	14.0 19.0 - 8.0 - 2.0	5.0 5.0 - 3.0 -	132.8 24.9 181.0 17.5 8.4 21.0	2.5 99.0 9.0 4.9 9.0 1.0
Other technologies and engineering Agricultural sciences Agriculture, forestry and fisheries Agricultural biotechnology Other agricultural sciences Social sciences	46.0 24.0 3.0 20.0 1.0 31.8	17.7 8.0 2.0 6.0	9.0 15.0 - 15.0 - 14.6	3.0 4.0 - 4.0 - 8.8	1.0 7.0 2.0 5.0	1.0 4.0 2.0 2.0	4.0 - - -	3.0	32.0 2.0 1.0 - 1.0 9.6	10.7 - - - - 7.8
Economics and business Other social sciences	14.0 17.8	9.0 14.2	8.0 6.6	4.0 4.8	6.0 1.6	5.0 1.6	-	-	9.6	7.8
Government sector Natural sciences Mathematics Physical sciences Earth and related environmental sciences Biological sciences Other natural sciences Engineering and technology Civil engineering	3048.9 1527.4 256.2 677.1 34.2 399.2 160.8 451.7 24.0	1767.4 946.4 147.2 359.4 21.0 333.3 85.5 211.5 17.0	1978.6 986.0 180.2 386.1 14.2 300.8 104.8 259.2 15.0	1101.2 586.8 87.2 196.4 5.0 252.7 45.5 108.8 10.0	542.3 228.0 76.0 31.0 20.0 80.0 21.0 87.4 6.0	348.8 175.0 60.0 16.0 70.0 13.0 37.3 4.0	142.2 115.0 - 115.0 - - - 25.2	102.1 89.0 89.0 - - - - 11.1	385.8 198.4 - 145.0 - 18.4 35.0 79.9 3.0	215.3 95.6 58.0 10.6 27.0 54.3 3.0
Electrical engineering, electronic engineering and information engineering Materials engineering Environmental technology Industrial biotechnology Other technologies and engineering Medical and health sciences Basic medicine Other medical sciences Agricultural sciences Agriculture, forestry and fisheries	182.3 41.0 114.4 29.0 61.0 126.3 45.0 81.3 350.5 13.5	51.5 20.0 66.0 18.0 39.0 93.2 30.0 63.2 202.5 8.5	107.8 22.0 70.4 20.0 24.0 78.9 30.0 48.9 271.5 9.5	29.8 8.0 37.0 10.0 14.0 56.3 20.0 36.3 158.5 7.5	26.4 9.0 26.0 2.0 18.0 38.9 15.0 23.9 41.0	3.3 4.0 14.0 1.0 11.0 29.5 10.0 19.5 20.0	21.2 1.0 2.0 1.0 1.0 1.0	8.1 1.0 2.0 - 1.0 - 1.0	26.9 10.0 17.0 5.0 18.0 7.5 7.5 37.0	10.3 8.0 14.0 5.0 14.0 6.4 - 6.4 23.0
Veterinary Agricultural biotechnology Other agricultural sciences Social sciences Psychology Economics and business Sociology Law Political sciences	51.0 201.0 85.0 244.3 35.7 49.0 22.0 26.0 83.6	27.0 114.0 53.0 117.6 18.3 27.0 7.0 16.0 27.3	35.0 159.0 68.0 163.3 27.7 27.0 17.0 14.0 56.6	19.0 89.0 43.0 71.6 13.3 12.0 5.0 8.0 15.3	16.0 15.0 6.0 52.0 1.0 15.0 - 10.0 24.0	8.0 7.0 4.0 30.0 - 11.0 - 8.0 10.0	1.0	1.0	26.0 11.0 29.0 7.0 7.0 5.0 2.0	17.0 6.0 16.0 5.0 4.0 2.0
Other social sciences Humanities History and archeology Languages and literature Arts (arts, history of arts, performing arts, music) Other humanities	28.0 348.7 174.5 94.5 26.0 53.7	22.0 196.2 75.0 69.5 13.0 38.7	21.0 219.7 118.5 41.5 15.0 44.7	18.0 119.2 51.0 29.5 7.0 31.7	2.0 95.0 37.0 38.0 11.0 9.0	1.0 57.0 15.0 29.0 6.0 7.0	- - - -	- - - -	5.0 34.0 19.0 15.0	3.0 20.0 9.0 11.0
Tertiary education Natural sciences Mathematics Computer and information sciences Physical sciences Chamical sciences	10196.0 1676.9 926.3 255.0 37.1	4952.6 879.9 515.0 115.3 11.6	6785.8 1120.0 590.8 179.6 15.1	3098.3 560.0 317.5 78.9 3.6	1047.0 150.5 26.5 63.7 22.0	573.5 73.0 13.0 32.0 8.0	98.5 3.0 2.0	34.8 2.0 1.0	2264.8 403.4 307.0 11.7	1246.0 244.9 183.5 4.4
Chemical sciences Earth and related environmental sciences Biological sciences Other natural sciences Engineering and technology Civil engineering Electrical engineering, electronic engineering and	144.0 50.0 160.9 103.6 2724.6 328.8	74.0 24.1 100.6 39.3 979.7 129.0	118.0 30.9 111.9 73.7 1739.1 171.8	58.0 14.6 64.6 22.8 577.1 70.0	12.0 3.4 - 22.9 152.7 42.0	7.0 2.5 10.5 65.4 21.0	1.0 71.0	1.0 20.0	14.0 15.7 49.0 6.0 761.8 115.0	9.0 7.0 36.0 5.0 317.2 38.0
information engineering Mechanical engineering Mechanical engineering Chemical engineering Environmental engineering Other technologies and engineering	1194.3 400.0 305.8 173.5 322.2	356.3 84.5 202.9 74.5 132.5	674.2 274.5 234.9 142.0 241.7	186.8 49.5 148.5 40.5 81.8	68.5 14.0 5.5 4.0 18.7	24.5 5.0 3.0 2.5 9.4	71.0 - - -	20.0	451.6 40.5 65.4 27.5 61.8	145.0 10.0 51.4 31.5 41.3

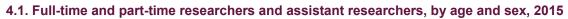
				Full-tim	ne and par	t-time resea	archers			
	To	otal	Doctors	of science	Masters	of science	Spec	cialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Medical and health sciences	1553.8	909.3	1100.5	608.8	131.2	92.1	9.0	5.3	313.1	203.2
Basic medicine	1049.3	602.7	787.0	428.7	99.3	72.3	4.0	2.3	159.0	99.5
Other medical sciences Agricultural sciences	504.5 752.8	306.6 347.9	313.5 549.4	180.1 230.2	31.9 42.0	19.8 19.0	5.0 2.0	3.0 2.0	154.1 159.4	103.7 96.7
Agriculture, forestry and fisheries	372.0	166.5	265.0	109.5	28.0	12.0	1.0	1.0	78.0	44.0
Veterinary sciences	83.8	42.4	50.4	22.7	-	-	-	-	33.4	19.7
Agricultural biotechnology	23.0	4.0	20.0	3.0	3.0	1.0	1.0	1.0	49.0	33.0
Other agricultural sciences Social sciences	274.0	135.0 1261.8	214.0 1679.2	95.0 791.1	11.0 381.5	6.0 224.7	1.0 8.5	2.5	48.0 401.2	243.5
Psychology	40.5	23.0	29.0	12.5	-		-	-	11.5	10.5
Economics and business	809.2	411.1	586.7	259.0	83.1	57.6	-	-	139.4	94.5
Educational sciences Law	654.8 343.9	319.1 134.6	309.9 281.1	148.9 98.3	174.5 9.5	84.7 6.5	1.5 5.0	1.0 1.5	168.9 48.3	84.5 28.3
Political sciences	127.9	57.1	81.2	29.7	38.7	22.4	2.0	-	6.0	5.0
Media and communications	26.4	15.8	20.4	12.8	6.0	3.0	-	-	.	
Other social sciences	467.8	301.1	370.9	229.9	69.7	50.5	-	- 2.0	27.2	20.7
Humanities Languages and literature	1017.6 354.8	574.0 240.8	597.6 211.2	331.2 136.3	189.1 59.0	99.3 34.8	5.0	3.0	225.9 84.6	140.5 69.7
Phylosophy, ethics and religion	447.0	220.0	298.0	134.0	65.0	34.0	-	-	84.0	52.0
Arts (arts, history of arts, performing arts, music)	162.8	90.2	49.4	38.9	62.1	30.5	5.0	3.0	46.3	17.8
Other humanities	53.0	23.0	39.0	22.0	3.0	-	-	-	11.0	1.0
Non-profit sector	6.2	3.2	1.0	1.0	5.2	2.2	-	-	-	-
Engineering and technology Other technologies and engineering	4.0 4.0	2.0 2.0	-	-	4.0 4.0	2.0 2.0	-	-	-	-
Social sciences	2.2	1.2	1.0	1.0	1.2	0.2	-	_	-	-
Economics and business	2.0	1.0	1.0	1.0	1.0		-	-	-	-
Law	0.2	0.2	-	-	0.2	0.2	-	-	-	-
RBIJA – SEVER	12087.5	5929.9	7316.7	3510.7	1446.0	842.1	277.7	147.6	3047.1	1429.5
Natural sciences	3459.8	1764.2	1895.8	1023.2	420.5	268.0	116.0	90.0	1027.5	383.0
Engineering and technology	3119.8 1236.8	1211.7 752.7	1684.5	593.6 471.3	211.6	94.8 118.3	141.2	46.1	1082.5 234.6	477.2 159.1
Medical and health sciences Agricultural sciences	1054.3	525.4	833.4 776.9	364.7	162.8 83.0	40.0	6.0 3.0	4.0 3.0	191.4	117.7
Social sciences	2266.5	1169.1	1486.7	711.4	408.3	234.5	8.5	2.5	363.0	220.7
Humanities	950.4	506.8	639.4	346.5	159.8	86.5	3.0	2.0	148.2	71.8
Business sector	1323.9	444.4	213.8	82.1	107.3	55.6	46.0	15.0	956.9	291.7
Natural sciences Computer and information sciences	623.9 461.8	147.2 91.5	38.1	13.7	46.0	22.0	-	-	539.8 461.8	111.5 91.5
Chemical sciences	42.0	24.0	15.0	6.0	27.0	18.0	-	-	401.6	91.5
Earth and related environmental sciences	2.1	0.7	2.1	0.7	-	-	-	-	-	-
Other natural sciences	118.0	31.0	21.0	7.0	19.0	4.0	-	45.0	78.0	20.0
Engineering and technology Civil engineering	658.2	271.0 1.0	156.1	58.6	50.7	25.0	46.0	15.0	405.5 3.0	172.4 1.0
Electrical engineering, electronic engineering and	0.0	1.0							0.0	1.0
information engineering	218.7	74.5	43.2	9.6	26.7	13.0	14.0	5.0	134.8	46.9
Mechanical engineering Chemical engineering	79.9 227.0	23.5 125.0	31.0 32.0	13.0 19.0	5.0 14.0	3.0 7.0	19.0	5.0	24.9 181.0	2.5 99.0
Materials engineering	48.4	21.0	22.9	10.0	2.0	-	8.0	3.0	15.5	8.0
Environmental engineering	45.0	15.0	19.0	4.0	3.0	2.0	2.0	-	21.0	9.0
Environmental biotechnology	1.0 35.3	1.0 10.0	8.0	3.0	-	-	3.0	2.0	1.0 24.3	1.0 5.0
Other technologies and engineering Agricultural sciences	10.0	3.0	5.0	1.0	3.0	2.0	3.0	2.0	24.3	5.0
Agriculture, forestry and fisheries	3.0	2.0	-	-	2.0	2.0	-	-	1.0	-
Agricultural biotechnology	6.0	1.0	5.0	1.0	1.0	-	-	-	-	-
Other agricultural sciences Social sciences	1.0 31.8	23.2	14.6	8.8	7.6	6.6	-	-	1.0 9.6	7.8
Economics and business	14.0	9.0	8.0	4.0	6.0	5.0	-	_	-	-
Other social sciences	17.8	14.2	6.6	4.8	1.6	1.6	-	-	9.6	7.8
Government sciences	2985.9	1724.4	1946.6	1080.2	530.3	340.8	141.2	102.1	367.8	201.3
Natural sciences	1527.4	946.4	986.0	586.8	228.0	175.0	115.0	89.0	198.4	95.6
Mathematics Physical sciences	256.2 677.1	147.2 359.4	180.2 386.1	87.2 196.4	76.0 31.0	60.0 16.0	115.0	89.0	145.0	58.0
Earth and related environmental sciences	34.2	21.0	14.2	5.0	20.0	16.0	-	-	143.0	-
Biological sciences	399.2	333.3	300.8	252.7	80.0	70.0	-	-	18.4	10.6
Other natural sciences	160.8	85.5	104.8	45.5	21.0	13.0	- 04.0	-	35.0	27.0
Engineering and technology Civil engineering	407.7 24.0	181.5 17.0	245.2 15.0	99.8 10.0	76.4 6.0	30.3 4.0	24.2	11.1	61.9 3.0	40.3 3.0
Electrical engineering, electronic engineering and	21.0	17.0	10.0	10.0	0.0	1.0			0.0	0.0
information engineering	182.3	51.5	107.8	29.8	26.4	3.3	21.2	8.1	26.9	10.3
Materials engineering Environmental biotechnology	41.0 114.4	20.0 66.0	22.0 70.4	8.0 37.0	9.0 26.0	4.0 14.0	1.0	1.0	10.0 17.0	8.0 14.0
Industrial biotechnology	29.0	18.0	20.0	10.0	26.0	14.0	2.0	2.0	5.0	5.0
Other technologies and engineering	17.0	9.0	10.0	5.0	7.0	4.0	-	-	-	-
Medical and health sciences	126.3	93.2	78.9	56.3	38.9	29.5	1.0	1.0	7.5	6.4
Basic medicine Other medical sciences	45.0 81.3	30.0 63.2	30.0 48.9	20.0 36.3	15.0 23.9	10.0 19.5	1.0	1.0	7.5	6.4
Agricultural sciences	331.5	189.5	253.5	146.5	40.0	19.5	1.0	1.0	37.0	23.0
Agriculture, forestry and fisheries	13.5	8.5	9.5	7.5	4.0	1.0	-	-	-	
Veterinary science	51.0	27.0 114.0	35.0 159.0	19.0 89.0	16.0 15.0	8.0 7.0	1.0	1.0	26.0	- 17.0
Agricultural biotechnology	201.0									

				Full-tim	e and par	t-time resea	rchers			
	Тс	otal	Doctors of	of science	Masters	of science	Spec	cialists	Universit	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Social sciences	244.3	117.6	163.3	71.6	52.0	30.0	_	_	29.0	16.0
Psychology	35.7	18.3	27.7	13.3	1.0	-	-	-	7.0	5.0
Economics and business Sociology	49.0 22.0	27.0 7.0	27.0 17.0	12.0 5.0	15.0	11.0		-	7.0 5.0	4.0 2.0
.aw	26.0	16.0	14.0	8.0	10.0	8.0	_	-	2.0	2.0
Political sciences	83.6	27.3	56.6	15.3	24.0	10.0	-	-	3.0	2.0
Other social sciences	28.0	22.0	21.0	18.0	2.0	1.0	-	-	5.0	3.0
Humanities	348.7	196.2	219.7	119.2	95.0	57.0	-	-	34.0	20.0
History and archeology Languages and literature	174.5 94.5	75.0 69.5	118.5 41.5	51.0 29.5	37.0 38.0	15.0 29.0		-	19.0 15.0	9.0 11.0
Art (arts, history of arts, performing arts, music)	26.0	13.0	15.0	7.0	11.0	6.0	-	-	-	-
Other humanities	53.7	38.7	44.7	31.7	9.0	7.0	-	-	-	-
Tertiary education	7771.5	3757.9	5155.4	2347.4	803.2	443.5	90.5	30.5	1722.5	936.5
Natural sciences	1308.5	670.6	871.7	422.7	146.5	71.0	1.0	1.0	289.3	175.9
Mathematics Computer and information sciences	557.9 255.0	305.7 115.3	342.5 179.6	180.2 78.9	22.5 63.7	11.0 32.0		-	192.9 11.7	114.5 4.4
Physical sciences	37.1	11.6	15.1	3.6	22.0	8.0	-	_		
Chemical sciences	144.0	74.0	118.0	58.0	12.0	7.0	-	-	14.0	9.0
Earth and related environmental sciences	50.0	24.1	30.9	14.6	3.4	2.5	-	-	15.7	7.0
Biological sciences Other natural sciences	160.9 103.6	100.6 39.3	111.9 73.7	64.6 22.8	22.9	10.5	1.0	1.0	49.0 6.0	36.0 5.0
Engineering and technology	2049.9	757.2	1283.3	435.2	80.5	37.5	71.0	20.0	615.1	264.5
Divil engineering	243.8	92.0	132.8	55.0	11.0	5.0		-	100.0	32.0
Electrical engineering, electronic engineering and										
nformation engineering	934.4	280.0	487.3	125.0	50.0	19.5	74.0	-	397.1	135.5
Mechanical engineering Chemical engineering	249.0 255.0	58.0 181.5	176.0 193.5	36.0 131.5	2.0 3.5	2.0 3.0	71.0	20.0	58.0	47.0
Environmental engineering	146.0	62.0	123.0	32.0	-	-	_	-	23.0	30.0
Other technologies and engineering	221.7	83.7	170.7	55.7	14.0	8.0	-	-	37.0	20.0
Medical and health sciences	1110.5	659.5	754.5	415.0	123.9	88.8	5.0	3.0	227.1	152.7
Basic medicine Other medical sciences	606.0 504.5	352.9 306.6	441.0 313.5	234.9 180.1	92.0 31.9	69.0 19.8	5.0	3.0	73.0 154.1	49.0 103.7
Agricultural sciences	712.8	332.9	518.4	217.2	40.0	19.0	2.0	2.0	152.4	94.7
Agriculture, forestry and fisheries	332.0	151.5	234.0	96.5	26.0	12.0	1.0	1.0	71.0	42.0
/eterinary science	83.8	42.4	50.4	22.7			-	-	33.4	19.7
Agricultural biotechnology	23.0	4.0	20.0	3.0	3.0	1.0	- 4 0	- 10	40.0	20.0
Other agricultural sciences Social sciences	274.0 1988.2	135.0 1027.1	214.0 1307.8	95.0 630.0	11.0 347.5	6.0 197.7	1.0 8.5	1.0 2.5	48.0 324.4	33.0 196.9
Psychology	40.5	23.0	29.0	12.5	-	-	- 0.5	2.5	11.5	10.5
Economics and business	567.6	282.1	404.8	174.4	61.1	37.6	-	-	101.7	70.1
Educational sciences	544.3	268.1	224.4	112.9	168.5	81.2	1.5	1.0	149.9	73.0
.aw	239.4 127.9	99.6 57.1	192.6 81.2	70.3 29.7	7.5	5.5 22.4	5.0 2.0	1.5	34.3	22.3 5.0
Political sciences Media and communications	26.4	15.8	20.4	12.8	38.7 6.0	3.0	2.0	-	6.0	5.0
Other social sciences	442.1	281.4	355.4	217.4	65.7	48.0	-	_	21.0	16.0
Humanities	601.7	310.6	419.7	227.3	64.8	29.5	3.0	2.0	114.2	51.8
anguages and literature	209.1	138.0	171.1	113.0	3.0	3.0	-	-	35.0	22.0
Phylosophy, ethics and religion Art (arts, history of arts, performing arts, music)	276.0 63.6	108.0 41.6	180.0 29.6	67.0 25.3	53.0 5.8	22.0 4.5	3.0	2.0	43.0 25.2	19.0 9.8
Other humanities	53.0	23.0	39.0	22.0	3.0	-	-	2.0	11.0	1.0
Non-profit sector	6.2	3.2	1.0	1.0	5.2	2.2	_	_	_	
Engineering and technology	4.0	2.0	-	-	4.0	2.0	-	-	-	-
Other technologies and engineering	4.0	2.0	-	-	4.0	2.0	-	-	-	
Social sciences	2.2	1.2	1.0	1.0	1.2	0.2	-	-	-	
Economics and business .aw	2.0 0.2	1.0 0.2	1.0	1.0	1.0 0.2	0.2	-	-	-	
Beogradski region	8454.2	4296.7	5481.8	2643.2	1113.5	666.6	265.2	141.1	1593.7	845.8
Natural sciences Engineering and technology	2616.2 1859.6	1442.6 711.3	1628.9 1056.4	865.8 363.2	410.1 129.6	263.0 59.3	116.0 140.2	90.0 45.1	461.2 533.4	223.8 243.7
Medical and health sciences	965.8	591.4	659.9	373.6	145.9	105.5	1.0	1.0	159.0	111.3
Agricultural sciences	710.3	365.9	526.9	261.2	58.0	25.0	3.0	3.0	122.4	76.7
Social sciences	1393.9	694.7	999.3	447.9	212.1	127.3	2.0	-	180.5	119.5
Humanities	908.4	490.8	610.4	331.5	157.8	86.5	3.0	2.0	137.2	70.8
Business sector	727.8	298.9	203.8	82.1	98.3	52.6	46.0	15.0	379.8	149.2
Natural sciences	178.8	65.7	38.1	13.7	46.0	22.0	-	-	94.7	30.0
Computer and information sciences Chemical sciences	16.7 42.0	10.0 24.0	15.0	6.0	27.0	18.0	-	-	16.7	10.0
Earth and related environmental sciences	2.1	0.7	2.1	0.0			-	-	-	
Other natural sciences	118.0	31.0	21.0	7.0	19.0	4.0	-	-	78.0	20.0
Engineering and technology	510.2	207.0	149.1	58.6	41.7	22.0	46.0	15.0	273.5	111.4
Civil engineering	3.0	1.0	-	-	-	-	-	-	3.0	1.0
Electrical engineering, electronic engineering and	218.7	74.5	43.2	9.6	26.7	13.0	14.0	5.0	134.8	46.9
nformation engineering				13.0	5.0	3.0	19.0	5.0		2.
nformation engineering Mechanical engineering	77.9	23.5	31.0	13.0	ູນ.ບ		19.0	ບ.ບ	22.9	
nformation engineering Mechanical engineering Chemical engineering	77.9 83.0	61.0	26.0	19.0	5.0	4.0	19.0	5.0	52.0	
Mechanical engineering Chemical engineering Materials engineering	83.0 46.4	61.0 21.0	26.0 21.9	19.0 10.0	5.0 2.0	4.0	8.0	3.0	52.0 14.5	38.0 8.0
Mechanical engineering Chemical engineering	83.0	61.0	26.0	19.0	5.0	4.0	-	-	52.0	38.0 8.0 9.0 1.0

				Full-tim	ne and par	t-time rese	archers			
	To	otal	Doctors	of science	Masters	of science	Spec	cialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Agricultural sciences	7.0	3.0	2.0	1.0	3.0	2.0	-	_	2.0	_
Agriculture, forestry and fisheries Agricultural biotechnology	3.0 3.0	2.0 1.0	2.0	1.0	2.0 1.0	2.0	-	-	1.0	-
Other agricultural sciences	1.0	-	-	-	-	-	-	-	1.0	-
Social sciences Economics and business	31.8 14.0	23.2 9.0	14.6 8.0	8.8 4.0	7.6 6.0	6.6 5.0	-	-	9.6	7.8
Other social sciences	17.8	14.2	6.6	4.8	1.6	1.6	-	-	9.6	7.8
Government sector	2760.5	1603.4 946.4	1777.2	996.2 586.8	490.3	317.8 175.0	140.2	101.1	352.8	188.3 95.6
Natural sciences Mathematics	1527.4 256.2	147.2	986.0 180.2	87.2	228.0 76.0	175.0 60.0	115.0	89.0	198.4 -	-
Physical sciences Earth and related environmental sciences	677.1 34.2	359.4 21.0	386.1 14.2	196.4 5.0	31.0 20.0	16.0 16.0	115.0	89.0	145.0	58.0
Biological sciences	399.2	333.3	300.8	252.7	80.0	70.0	-	-	18.4	10.6
Other natural sciences Engineering and technology	160.8 310.3	85.5 125.5	104.8 177.8	45.5 64.8	21.0 56.4	13.0 19.3	23.2	10.1	35.0 52.9	27.0 31.3
Civil engineering Electrical engineering, electronic engineering and	24.0	17.0	15.0	10.0	6.0	4.0	-	-	3.0	3.0
information engineering	182.3	51.5	107.8	29.8	26.4	3.3	21.2	8.1	26.9	10.3
Materials engineering Environmental biotechnology	41.0 34.0	20.0 19.0	22.0 13.0	8.0 7.0	9.0 13.0	4.0 7.0	-	-	10.0 8.0	8.0 5.0
Industrial biotechnology	29.0	18.0	20.0	10.0	2.0	1.0	2.0	2.0	5.0	5.0
Medical and health sciences Basic medicine	126.3 45.0	93.2 30.0	78.9 30.0	56.3 20.0	38.9 15.0	29.5 10.0	1.0	1.0	7.5	6.4
Other medical sciences Agricultural sciences	81.3 203.5	63.2 124.5	48.9 151.5	36.3 97.5	23.9 20.0	19.5 7.0	1.0 1.0	1.0 1.0	7.5 31.0	6.4 19.0
Agriculture, forestry and fisheries	13.5	8.5	9.5	7.5	4.0	1.0	1.0	1.0	31.0	19.0
Veterinary science Agricultural biotechnology	18.0 106.0	10.0 66.0	12.0 80.0	8.0 51.0	6.0 5.0	2.0 1.0	1.0	1.0	20.0	13.0
Other agricultural sciences	66.0	40.0	50.0	31.0	5.0	3.0	-	-	11.0	6.0
Social sciences Psychology	244.3 35.7	117.6 18.3	163.3 27.7	71.6 13.3	52.0 1.0	30.0		-	29.0 7.0	16.0 5.0
Economics and business Sociocology	49.0 22.0	27.0 7.0	27.0 17.0	12.0 5.0	15.0	11.0	-	-	7.0 5.0	4.0 2.0
Law	26.0	16.0	14.0	8.0	10.0	8.0	-	-	2.0	-
Political sciences Other social sciences	83.6 28.0	27.3 22.0	56.6 21.0	15.3 18.0	24.0 2.0	10.0 1.0	-	-	3.0 5.0	2.0 3.0
Humanities	348.7	196.2	219.7	119.2	95.0	57.0	-	-	34.0	20.0
History and archeology Languages and literature	174.5 94.5	75.0 69.5	118.5 41.5	51.0 29.5	37.0 38.0	15.0 29.0	-	-	19.0 15.0	9.0 11.0
Art (arts, history of arts, performing arts, music) Other humanities	26.0 53.7	13.0 38.7	15.0 44.7	7.0 31.7	11.0 9.0	6.0 7.0	-	-	-	-
Tertiary education	4959.7	2391.2	3499.9	1563.9	519.7	294.0	79.0	25.0	861.1	508.3
Natural sciences Mathematics	910.0 170.9	430.5 72.7	604.8 83.5	265.3 27.2	136.1 12.5	66.0 6.0	1.0	1.0	168.1 74.9	98.2 39.5
Computer and information sciences	255.0	115.3	179.6	78.9	63.7	32.0	-	-	11.7	4.4
Physical sciences Chemical sciences	37.1 144.0	11.6 74.0	15.1 118.0	3.6 58.0	22.0 12.0	8.0 7.0	-	-	14.0	9.0
Earth and related environmental sciences Biological sciences	38.5 160.9	17.0 100.6	23.0 111.9	10.2 64.6	3.0	2.5	-	-	12.5 49.0	4.3 36.0
Other natural sciences	103.6	39.3	73.7	22.8	22.9	10.5	1.0	1.0	6.0	5.0
Engineering and technology Civil engineering	1035.1	376.8 80.0	729.6 132.8	239.8 55.0	27.5 4.0	16.0 2.0	71.0	20.0	207.0 70.0	101.0 23.0
Electrical engineering, electronic engineering and										
information engineering Mechanical engineering	179.6 249.0	41.6 58.0	103.6 176.0	19.6 36.0	10.0 2.0	6.0 2.0	71.0	20.0	66.0	16.0 -
Chemical engineering Environmental engineering	100.0 146.0	70.5 62.0	85.5 123.0	57.5 32.0	1.5	1.0	-	-	13.0 23.0	12.0 30.0
Other technologies and engineering	153.7	64.7	108.7	39.7	10.0	5.0	-	-	35.0	20.0
Medical and health sciences Basic medicine	839.5 606.0	498.2 352.9	581.0 441.0	317.3 234.9	107.0 92.0	76.0 69.0	-	-	151.5 73.0	104.9 49.0
Other medical sciences Agricultural sciences	233.5 499.8	145.3 238.4	140.0 373.4	82.4 162.7	15.0 35.0	7.0 16.0	2.0	2.0	78.5 89.4	55.9 57.7
Agriculture, forestry and fisheries	119.0	57.0	89.0	42.0	21.0	9.0	1.0	1.0	8.0	5.0
Veterinary science Agricultural biotechnology	83.8 23.0	42.4 4.0	50.4 20.0	22.7 3.0	3.0	1.0	-	-	33.4	19.7 -
Other agricultural sciences	274.0 1115.6	135.0 552.7	214.0	95.0	11.0 151.3	6.0	1.0 2.0	1.0	48.0	33.0 95.7
Social sciences Economics and business	428.0	211.7	820.4 318.3	366.5 141.7	44.1	90.5 27.6	-	-	141.9 65.6	42.4
Educational sciences Law	223.8 158.9	110.4 65.8	151.2 130.4	69.1 47.3	44.3 7.5	22.0 5.5	-	-	28.3 21.0	19.3 13.0
Political sciences	127.9	57.1	81.2	29.7	38.7	22.4	2.0	-	6.0	5.0
Media and communications Other social sciences	26.4 150.6	15.8 91.9	20.4 118.9	12.8 65.9	6.0 10.7	3.0 10.0	-	-	21.0	16.0
Humanities Languages and literature	559.7 209.1	294.6 138.0	390.7 171.1	212.3 113.0	62.8 3.0	29.5 3.0	3.0	2.0	103.2 35.0	50.8 22.0
Phylosophy, ethics and religion	276.0	108.0	180.0	67.0	53.0	22.0	-	-	43.0	19.0
Art (arts, history of arts, performing arts, music) Other humanities	63.6 11.0	41.6 7.0	29.6 10.0	25.3 7.0	5.8 1.0	4.5	3.0	2.0	25.2	9.8
Non-profit sector	6.2	3.2	1.0	1.0	5.2	2.2	-	-	-	-
Engineering and technology Other technologies and engineering	4.0 4.0	2.0 2.0	-	-	4.0 4.0	2.0 2.0	-	-	-	-
Social sciences	2.2	1.2	1.0	1.0	1.2	0.2	-	-	-	-
Economics and business Law	2.0 0.2	1.0 0.2	1.0	1.0	1.0 0.2	0.2	-	-	-	-

				Full-tim	ne and par	t-time rese	archers			
	To	otal	Doctors	of science	Masters	of science	Spec	cialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Region Vojvodine Natural sciences Engineering and technology Medical and health sciences Agricultural sciences Social sciences	3633.4 843.6 1260.2 271.0 344.0 872.6	1633.2 321.6 500.4 161.3 159.5 474.4	1834.9 266.9 628.1 173.5 250.0 487.4	867.5 157.4 230.4 97.7 103.5 263.5	332.5 10.4 82.0 16.9 25.0 196.2	175.5 5.0 35.5 12.8 15.0 107.2	12.5 1.0 5.0 6.5	6.5 1.0 3.0 - 2.5	1453.5 566.3 549.1 75.6 69.0 182.5	583.7 159.2 233.5 47.8 41.0 101.2
Humanities Business sector Natural sciences Computer and information sciences Engineering and technology Mechanical engineering Chemical engineering Materials engineering	42.0 596.1 445.1 445.1 148.0 2.0 144.0 2.0	16.0 145.5 81.5 81.5 64.0	29.0 10.0 - - 7.0 - 6.0 1.0	15.0	9.0 9.0 9.0 9.0	3.0 3.0 3.0	- - - - - -	-	11.0 577.1 445.1 445.1 132.0 2.0 129.0 1.0	1.0 142.5 81.5 81.5 61.0
Agricultural sciences Agricultural biotechnology Government sector Engineering and technology Environmental biotechnology	3.0 3.0 225.4 97.4 80.4	121.0 56.0 47.0	3.0 3.0 169.4 67.4 57.4	84.0 35.0 30.0	40.0 20.0 13.0	23.0 11.0 7.0	1.0 1.0 1.0	1.0 1.0 1.0	15.0 9.0 9.0	13.0 9.0 9.0
Other technologies and enğíneering Agricultural sciences Veterinary sciences Agricultural biotechnology Tertiary education Natural sciences	17.0 128.0 33.0 95.0 2811.9 398.5	9.0 65.0 17.0 48.0 1366.7 240.1	10.0 102.0 23.0 79.0 1655.5 266.9	5.0 49.0 11.0 38.0 783.5 157.4	7.0 20.0 10.0 10.0 283.5 10.4	4.0 12.0 6.0 6.0 149.5 5.0	- - - 11.5	5.5	6.0 6.0 861.4 121.2	4.0 4.0 428.2 77.7
Mathematics Earth and related environmental sciences Engineering and technology Civil engineering Electrical engineering, electronic engineering and	387.0 11.5 1014.8 37.0	233.0 7.1 380.4 12.0	259.0 7.9 553.7	153.0 4.4 195.4	10.0 0.4 53.0 7.0	5.0 21.5 3.0	- - -	-	118.0 3.2 408.1 30.0	75.0 2.7 163.5 9.0
information engineering Chemical engineering Other technologies and engineering Medical and health sciences Other medical sciences Agricultural sciences Agriculture, forestry and fisheries Social sciences Psychology Economics and business Educational sciences	754.8 155.0 68.0 271.0 271.0 213.0 213.0 872.6 40.5 139.6 320.5	238.4 111.0 19.0 161.3 161.3 94.5 94.5 474.4 23.0 70.4 157.7	383.7 108.0 62.0 173.5 173.5 145.0 487.4 29.0 86.5 73.2	105.4 74.0 16.0 97.7 97.7 54.5 54.5 263.5 12.5 32.7 43.8	40.0 2.0 4.0 16.9 16.9 5.0 5.0 196.2 17.0 124.2	13.5 2.0 3.0 12.8 12.8 3.0 3.0 107.2 10.0 59.2	5.0 5.0 - - 6.5 -	3.0 3.0 - - 2.5 - 1.0	331.1 45.0 2.0 75.6 75.6 63.0 63.0 182.5 11.5 36.1 121.6	119.5 35.0 47.8 47.8 37.0 37.0 101.2 10.5 27.7 53.7
Law Other social sciences Humanities Other humanities SRBIJA – JUG Natural sciences	80.5 291.5 42.0 42.0 2569.1	33.8 189.5 16.0 16.0 1271.3 212.3	62.2 236.5 29.0 29.0 1693.9	23.0 151.5 15.0 15.0 779.9 137.3	55.0 2.0 2.0 265.8 4.0	38.0 - - 141.0	5.0 - - 10.0	1.5 - - 5.3 1.0	13.3 11.0 11.0 599.5 117.1	9.3 1.0 1.0 345.1
Natural sciences Engineering and technology Medical and health sciences Agricultural sciences Social sciences Humanities Business sector	372.4 782.3 443.3 73.0 482.3 415.9 81.6	278.1 278.1 249.8 33.0 234.7 263.4 33.6	249.3 490.3 346.0 59.0 371.4 177.9 31.5	155.9 193.8 28.0 161.1 103.9 8.0	4.0 89.2 7.3 7.0 34.0 124.3 10.0	2.0 35.9 3.3 3.0 27.0 69.8 3.0	2.0 2.0 4.0 - 2.0 1.0	1.0 1.0 2.3 - 1.0 1.0	200.8 86.0 7.0 76.9 111.7 39.1	72.0 85.3 50.5 2.0 46.6 88.7 21.6
Natural sciences Other natural sciences Engineering and technology Electrical engineering, electronic engineering and information engineering	4.0 4.0 63.6 29.3	3.0 3.0 25.6 11.0	1.0 1.0 20.5 7.3	5.0	6.0	1.0	1.0	1.0	3.0 3.0 36.1 18.0	3.0 3.0 18.6 7.0
Materials engineering Medical engineering Other technologies and engineering Agricultural sciences Agricultural biotechnology Government sector	2.0 21.6 10.7 14.0 14.0 63.0	1.0 5.9 7.7 5.0 5.0 43.0	12.2 1.0 10.0 10.0 32.0	1.0 3.0 3.0 21.0	1.0 1.0 4.0 4.0 12.0	1.0 2.0 2.0 8.0	1.0 - - - 1.0	1.0	2.0 8.4 7.7 - - 18.0	1.0 4.9 5.7 - - 14.0
Engineering and technology Other technologies and engineering Agricultural sciences Other agricultural sciences Tertiary education	44.0 44.0 19.0 19.0 2424.5	30.0 30.0 13.0 13.0	14.0 14.0 18.0 18.0 1630.4	9.0 9.0 12.0 12.0 750.9	11.0 11.0 1.0 1.0 243.8	7.0 7.0 1.0 1.0	1.0 1.0 - - 8.0	4.3	18.0 18.0 - - - 542.4	14.0 14.0 - - 309.5
Natural sciences Mathematics Engineering and technology Civil engineering Electrical engineering, electronic engineering and	368.4 368.4 674.7 85.0	209.3 209.3 222.5 37.0	248.3 248.3 455.8 39.0	137.3 137.3 141.9 15.0	4.0 4.0 72.2 31.0	2.0 2.0 27.9 16.0	2.0 2.0 -	1.0 1.0	114.1 114.1 146.7 15.0	69.0 69.0 52.7 6.0
information engineering Mechanical engineering Chemical engineering Environmental engineering Other technologies and engineering Medicial and health engineering Basic medicine Agricultural sciences Agriculture, forestry and fisheries Social sciences	259.9 151.0 50.8 27.5 100.5 443.3 443.3 40.0 40.0 482.3	76.3 26.5 21.4 12.5 48.8 249.8 249.8 15.0 15.0 234.7	186.9 98.5 41.4 19.0 71.0 346.0 31.0 31.0 371.4	61.8 13.5 17.0 8.5 26.1 193.8 193.8 13.0 13.0 161.1	18.5 12.0 2.0 4.0 4.7 7.3 7.3 2.0 2.0 34.0	5.0 3.0 2.5 1.4 3.3 3.3	4.0	2.3 2.3 2.3	54.5 40.5 7.4 4.5 24.8 86.0 86.0 7.0 7.0 76.9	9.5 10.0 4.4 1.5 21.3 50.5 50.5 2.0 2.0 46.6
Economics and business Educational sciences Law Other social sciences Humanities Languages and literature Phylosophy, ethics and religion Art (arts, history of arts, performing arts, music)	241.6 110.5 104.5 25.7 415.9 145.7 171.0 99.2	129.0 51.0 35.0 19.7 263.4 102.8 112.0 48.6	181.9 85.5 88.5 15.5 177.9 40.1 118.0 19.8	84.6 36.0 28.0 12.5 103.9 23.3 67.0 13.6	22.0 6.0 2.0 4.0 124.3 56.0 12.0 56.3	20.0 3.5 1.0 2.5 69.8 31.8 12.0 26.0	2.0 2.0	1.0 - 1.0	37.7 19.0 14.0 6.2 111.7 49.6 41.0 21.1	24.4 11.5 6.0 4.7 88.7 47.7 33.0 8.0

				Full-tim	ne and par	t-time resea	rchers			
	T	otal	Doctors	of science	Masters	of science	Spec	cialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Region Šumadije i Zapadne Srbije Natural sciences Engineering and technology Medical and health sciences Agricultural sciences Social sciences Humanities	910.1 170.6 211.3 103.4 59.0 220.2 145.7	467.1 107.5 57.9 60.2 28.0 110.7 102.8	546.7 109.5 125.7 55.1 49.0 167.3 40.1	255.1 64.5 31.1 30.2 25.0 81.1 23.3	90.0 3.0 12.7 2.3 3.0 13.0 56.0	50.0 2.0 5.4 1.3 1.0 8.5 31.8	4.0 4.0	2.3 - - 2.3 - -	269.5 58.1 72.9 42.0 7.0 39.9 49.6	159.7 41.0 21.4 26.5 2.0 21.1 47.7
Business sector Natural sciences Other natural sciences Engineering and technology Materials engineering Medical engineering Other technologies and engineering	30.3 4.0 4.0 26.3 2.0 21.6 2.7	11.6 3.0 3.0 8.6 1.0 5.9 1.7	13.2 1.0 1.0 12.2 - 12.2	1.0 - 1.0 - 1.0	1.0 - 1.0 - 1.0	- - - - -	- - - - -	- - - - -	16.1 3.0 3.0 13.1 2.0 8.4 2.7	10.6 3.0 3.0 7.6 1.0 4.9 1.7
Government sector Agricultural sciences Other agricultural sciences	19.0 19.0 19.0	13.0 13.0 13.0	18.0 18.0 18.0	12.0 12.0 12.0	1.0 1.0 1.0	1.0 1.0 1.0	-	-	-	- - -
Tertiary education Natural sciences Mathematics Engineering and technology	860.8 166.6 166.6 185.0	442.5 104.5 104.5 49.3	515.5 108.5 108.5 113.5	242.1 64.5 64.5 30.1	88.0 3.0 3.0 11.7	49.0 2.0 2.0 5.4	4.0 - - -	2.3 - -	253.4 55.1 55.1 59.8	149.1 38.0 38.0 13.8
Electrical engineering, electronic engineering and information engineering Mechanical engineering Other technologies and engineering Medical and health sciences Basic medicine Agricultural sciences Agriculture, forestry and fisheries Social sciences Economics and business Educational sciences Law Other social sciences Humanities Languages and literature	122.0 48.0 15.0 103.4 103.4 40.0 220.2 122.5 43.0 29.0 25.7 145.7	34.0 8.5 6.8 60.2 60.2 15.0 15.0 110.7 60.0 24.0 7.0 19.7 102.8 102.8	76.5 26.5 10.5 55.1 31.0 31.0 167.3 92.8 33.0 26.0 15.5 40.1	24.5 1.5 4.1 30.2 13.0 13.0 81.1 42.6 19.0 7.0 12.5 23.3 23.3	5.0 5.0 1.7 2.3 2.3 2.0 2.0 13.0 4.0 4.0 4.0 56.0	2.0 2.0 1.4 1.3 1.3 8.5 4.0 2.0 2.5 31.8 31.8	4.0 4.0	2.3 2.3 	40.5 16.5 2.8 42.0 7.0 7.0 39.9 25.7 6.0 2.0 6.2 49.6	7.5 5.0 1.3 26.5 26.5 2.0 21.1 13.4 3.0 4.7 47.7
Region Juzne i Istočne Srbije Natural sciences Engineering and technology Medical and health sciences Agricultural sciences Social sciences Humanities	1659.0 201.8 571.0 339.9 14.0 262.1 270.2	804.2 104.8 220.2 189.6 5.0 124.0 160.6	1147.2 139.8 364.6 290.9 10.0 204.1 137.8	524.8 72.8 124.8 163.6 3.0 80.0 80.6	175.8 1.0 76.5 5.0 4.0 21.0 68.3	91.0 30.5 2.0 2.0 18.5 38.0	6.0 2.0 2.0 - - 2.0	3.0 1.0 1.0 - - 1.0	330.0 59.0 127.9 44.0 - 37.0 62.1	185.4 31.0 63.9 24.0 - 25.5 41.0
Business sector Engineering and technology Electrical engineering, electronic engineering and information engineering	51.3 37.3 29.3	22.0 17.0 11.0	18.3 8.3 7.3	7.0 4.0 4.0	9.0 5.0 4.0	3.0 1.0	1.0 1.0	1.0 1.0	23.0 23.0 18.0	11.0 11.0 7.0
Other technologies and engineering Agricultural sciences Agricultural biotechnology	8.0 14.0 14.0	6.0 5.0 5.0	1.0 10.0 10.0	3.0 3.0	1.0 4.0 4.0	1.0 2.0 2.0	1.0	1.0	5.0	4.0
Government sector Engineering and technology Other technologies and engineering	44.0 44.0 44.0	30.0 30.0 30.0	14.0 14.0 14.0	9.0 9.0 9.0	11.0 11.0 11.0	7.0 7.0 7.0	1.0 1.0 1.0	-	18.0 18.0 18.0	14.0 14.0 14.0
Tertiary education Natural sciences Mathematics Engineering and technology Civil engineering	201.8 201.8 201.8 489.7 85.0	752.2 104.8 104.8 173.2 37.0	1114.9 139.8 139.8 342.3 39.0	508.8 72.8 72.8 111.8 15.0	155.8 1.0 1.0 60.5 31.0	81.0 22.5 16.0	4.0 2.0 2.0 -	2.0 1.0 1.0	289.0 59.0 59.0 86.9 15.0	31.0 31.0 38.9 6.0
Electrical engineering, electronic engineering and information engineering Mechanical engineering Chemical engineering Environmental engineering Environmental engineering Other technologies and engineering Medical and health sciences Basic medicine Social sciences Economics and business Educational sciences Law Humanities Phylosophy, ethics and religion Art (arts, history of arts, performing arts, music)	137.9 103.0 50.8 27.5 85.5 339.9 262.1 119.1 67.5 75.5 270.2 171.0 99.2	42.3 18.0 21.4 12.5 42.0 189.6 124.0 69.0 27.0 28.0 160.6 112.0 48.6	110.4 72.0 41.4 19.0 60.5 290.9 290.9 204.1 89.1 52.5 62.5 137.8 118.0 19.8	37.3 12.0 17.0 8.5 22.0 163.6 163.6 80.0 42.0 17.0 21.0 80.6 67.0 13.6	13.5 7.0 2.0 4.0 3.0 5.0 21.0 18.0 2.0 68.3 12.0 56.3	3.0 1.0 2.5 2.0 2.0 18.5 16.0 1.5 1.0 38.0 12.0 26.0	- - - - - - - - - - - - - - - - - - -	1.0	14.0 24.0 7.4 4.5 22.0 44.0 37.0 12.0 62.1 41.0 21.1	2.0 5.0 4.4 1.5 20.0 24.0 25.5 11.0 8.5 6.0 41.0 33.0 8.0
Region Kosovo i Metohija						***				



		Resear				Assistant re		
	Full-	-time	Part-	-time	Full-1	time	Part-	time
	All	Women	All	Women	All	Women	All	Womer
REPUBLIC OF SERBIA	13550	6647	2788	1397	1642	805	280	11.
Under 25	89	42	7	7	17	11	4	4
25 - 29	1436	707	210	122	153	83	45	20
30 - 34	2726	1321	343	177	273	143	47	2
35 - 39	1924	1068	369	180	243	128	41	10
40 - 44	1780	951	426	217	231	126	36	18
45 - 49	1561	816	412	228	202	103	23	!
50 - 54	1371	652	364	185	239	118	30	1
55 - 59	1223	593	303	146	150	60	21	
60 - 64	1059	395	278	112	118	32	22	
65 - 69 70 and over	368 13	102	69 7	23	11 5	1 -	8 3	
Business sector - total	1331	453	134	42	609	224	177	4
Under 25	6	4	1	1	7	4	-	-
25 - 29	216	77	16	4	51	19	22	
30 - 34	594	169	23	7	110	46	25	
35 - 39	159	67	24	5	88	32	24	
40 - 44	99	45	13	5	79	29	26	1
45 - 49	80	38	17	10	67	33	17	
50 - 54	48	18	11	3	99	34	19	
55 - 59	58	19	6	2	61	22	19	
60 - 64	50	15	10	4	34	5	14	
65 - 69	16	1	7	1	8	-	8	
70 and over	5	-	6	-	5	-	3	
Government sector - total	2946	1718	290	133	411	191	2	
Under 25	3		1	1	5	3	-	
25 - 29	262	165	5	2	28	13	-	
30 - 34	540	319	9	6	47	28	_	
35 - 39	469	300	17	6	48	31	1	
40 - 44	421	248	51	25	45	26	-	
45 - 49	407	239	60	33	70	27	-	
50 - 54	289	165	66	26	64	34	_	
55 - 59	319	193	52	24	55	21	_	
							-	
60 - 64	189	78	28	10	48	8	1	
65 - 69	45	11	1	-	1	-	-	
70 and over	2	-	-	-	-	-	-	
Tertiary education - total	9267	4473	2363	1221	620	388	101	6
Under 25	80	38	5	5	5	4	4	
25 - 29	958	465	189	116	73	50	23	1
30 - 34	1591	833	311		116	69	22	1
				164				
35 - 39	1295	701	328	169	106	64	16	1
40 - 44	1259	657	362	187	107	71	10	
45 - 49	1074	539	335	185	65	43	6	
50 - 54	1032	468	286	155	76	50	11	
55 - 59	845	380	245	120	34	17	2	
60 - 64	820	302	240	98	36	19	7	
65 - 69	307	90	61	22	2	1	-	
70 and over	6	-	1	-	-	-	-	
Non-profit sector - total	6	3	1	1	2	2	-	
25–29	-	-	-	-	1	1	-	
30–34	1	_	_	_	_	_	_	
		-	=	=	1	1	=	
35 - 39	1		-	-	ı	ı	-	
40 - 44	1	1	-	-	-	-	-	
50 - 54	2	1	1	1	-	-	-	
55 - 59	1	1	-	-	-	-	-	
RBIJA – SEVER	11252	5514	2149	1073	1472	730	214	7
Under 25	78	36	7	7	15	10		
							-	
25 - 29	1304	639	149	83	138	73	29	1
30 - 34	2323	1103	230	120	237	136	38	1
35 - 39	1591	879	285	141	218	118	34	1
40 - 44	1417	744	347	171	210	114	27	1
45 - 49	1258	670	333	188	184	92	19	
50 - 54	1076	531	280	141	215	104	18	
55 - 59	988	480	239	116	135	53	21	
60 - 64	890	345	222	91	104	29	17	
65 - 69	315	87	50	15	11	1	8	
					5		3	

4.1. Full-time and part-time researchers and assistant researchers, by age and sex, 2015 (continued)

	Researchers			Assistant researchers				
	Full-	-time	Part	ime	Full-	time	Par	t-time
	All	Women	All	Women	All	Women	All	Women
Business sector - total	1264	424	111	31	548	211	165	37
Under 25	6	4	1	1	7	4	-	-
25 - 29	209	75	16	4	50	19	18	4
30 - 34	576	161	18	5	89	44	23	4
35 - 39	149	63	19	5	77	30	23	3
40 - 44	91	41	11	4	71	26	25	10
45 - 49 50 - 54	72	35	13	7	61	29	17	5
50 - 54 55 - 50	42	16	9 5	1	92 57	32	15	3
55 - 59	53 47	16	5 7	1 2	57	22 5	19	3
60 - 64 65 - 69	15	12 1	6	1	31 8	5	14 8	3 1
70 and over	4	-	6	-	5	-	3	1
Government sector – total	2883	1675	290 1	133	386 5	179	2	1
Under 25 25 - 29	3 259	163	5	2	28	3 13	-	-
30 - 34	534	315	9	6	47	28	-	-
35 - 39	463	295	17	6	48	31	1	1
40 - 44	405	235	51	25	44	26		ı
45 - 49	390	227	60	33	64	25	-	-
50 - 54	282	162	66	26	59	30	-	_
55 - 59	316	191	52	24	49	17	-	-
60 - 64	186	77	28	10	41	6	1	_
65 - 69	43	10	1	-	1	-		_
70 and over	2	-	-	-	-	-	-	-
Tertiary education - total	7099	3412	1747	908	536	338	47	33
Under 25	69	32	5	5	3	3	-	-
25 - 29	836	401	128	77	59	40	11	8
30 - 34	1212	627	203	109	101	64	15	11
35 - 39	978	521	249	130	92	56	10	6
40 - 44	920	467	285	142	95	62	2	2
45 - 49	796	408	260	148	59	38	2	2
50 - 54	750	352	204	113	64	42	3	1
55 - 59	618	272	182	91	29	14	2	1
60 - 64	657	256	187	79	32	18	2	2
65 - 69	257	76	43	14	2	1	-	-
70 and over	6	-	1	-	-	-	-	-
Non-profit - total	6	3	1	1	2	2	-	-
25 - 29	-	-	-	-	1	1	-	-
30 - 34	1	-	-	-	-	-	-	-
35 – 39	1	-	-	-	1	1	-	-
40 – 44	1	1	-	-	-	-	-	-
50 – 54	2	1	1	1	-	-	-	-
55 -59	1	1	-	-	-	-	-	-
Beogradski region	7964	4056	1178	576	1109	551	187	56
Under 25	48	24	6	4	9	6	-	-
25 - 29	898	460	83	45	82	42	21	7
30 - 34	1363	738	99	50	165	97	26	8
35 - 39	1154	658	127	68	149	80	30	9
40 - 44	1012	546	169	92	153	85	25	11
45 - 49	977	524	199	112	144	78	19	7
50 - 54	853	415	190	89	176	85	18	4
55 - 59	802	397	139	61	116	50	20	3
60 - 64	624	239	127	45	100	27	17	5
65 - 69 70 and over	221 12	55	32 7	10 -	10 5	1 -	8 3	1 1
Business sector - total Under 25	675 5	279 4	93 1	30	492 7	198	160	36
25 - 29	150	60	16	1 4	40	4 17	18	4
30 - 34	198	100	13	4	76	38	21	4
35 - 3 9	91	37	12	5	69	30	21	2
40 - 44	54	21	5	4	58	23	24	10
45 - 49	56	24	13	7	60	29	17	5
50 - 54	32	10	9	1	85	30	15	3
55 - 59	36	11	5	1	54	22	19	3
60 - 64	34	11	7	2	30	5	14	3
65 - 69	15	1	6	1	8	-	8	1
70 and over	4	-	6	-	5	-	3	1



Full-west Part P		Full time			Assistant researchers				
Sovermet sector - total									
Under 25 28 29 29 40 40 474 474 279 9 6 30 30 21 40 40 444 372 216 51 62 77 17 6 62 71 18 1 40 40 444 372 216 51 62 62 60 60 60 33 42 19 60 60 60 60 33 42 19 60 60 60 60 60 60 60 60 60 60 60 60 60		All	Women	All	Women	All	Women	All	Wome
28 - 29	Governmet sector - total	2659	1554	288	133	263	125	2	
30-94	Under 25	3	-	1	1	-	-	-	
30-94	25 - 29	232	149	5	2	10	5	_	
38-39									
10.44								-	
45 - 49								1	
20-54 267 151 65 26 50 27	40 - 44	372	216	51	25	29	15	-	
180	45 - 49	361	210	60	33	42	19	-	
155 - 59 305 189 52 24 37 15								_	
30 - 64									
15 - 69								-	
Tertainy education - total 4624	60 - 64	173	74	27	10	38	5	1	
	65 - 69	41	9	1	-	-	-	-	
Inder 25 Inder	70 and over	2	-	-	-	-	-	-	
Inder 25	Fertiary education - total	4624	2220	796	412	352	226	25	1
15-29									
10 - 34									
15 - 39									
10 - 44	30 - 34	690	359	77	40	59	38	5	
10 - 44	35 - 39	633	344	98	57	52	31	8	
15 - 49									
10									
155-59									
10-64	50 - 54		253			41	28	3	
10-64	55 - 59	460	196	82	36	25	13	1	
15 - 69									
Non-profit sector - total 6									
Non-profit sector – total 6 3 1 1 2 2 - 25 – 29 - - - - - 1 1 - - - 1 1 - - - - 1 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td></td><td></td><td>45</td><td></td><td>9</td><td>2</td><td>1</td><td>-</td><td></td></t<>			45		9	2	1	-	
25 - 29	70 and over	6	-	1	-	-	-	-	
10 - 24	Non-profit sector – total	6	3	1	1	2	2	-	
10 - 24	25 - 29	_	_	_	_	1	1	_	
1		1	_	_	_			_	
10 - 44			=	_	=		-	=	
Section Sect			-	-	-	1	1	-	
1	40 – 44		1	-	-	-	-	-	
Segion Vojvodine 3288 1458 971 497 363 179 27	50 - 54	2	1	1	1	-	-	-	
Under 25 30 12 11 33 6 4 - 25-29 406 179 66 38 56 31 8 30 32 34-4 960 365 131 70 72 39 12 35-39 437 221 158 73 69 38 44 40-44 405 198 178 79 57 29 2 20 437 281 146 134 76 40 144 - 283 116 90 52 39 19 - 55-59 186 83 100 55 19 3 1 3 1 55 59 88 89 48 49 40 40 40 50 55 59 186 83 100 55 19 3 11 50 64 266 106 95 46 4 2 - 55 88 81 51 56 13 58 88 61 50 62 30 34 378 61 51 51 13 62 30 34 378 61 55 61 56 70 70 88 70 70 70 70 70 70 70	55 - 59	1	1	-	-	-	-	-	
Under 25 30 12 1 30 12 1 33 6 4 - 25 - 29 406 179 66 38 56 31 8 30 30 - 34 960 365 131 70 72 39 12 35 - 39 437 221 158 73 69 38 4 4 40 - 44 405 198 178 79 57 29 2 45 50 - 54 223 116 90 55 - 59 186 83 100 55 - 59 186 83 100 55 - 59 186 83 100 55 - 59 186 83 100 55 - 19 3 1 50 - 64 266 106 95 46 4 2	ngian Vaivadina	2200	4.450	074	407	262	170	27	
25 - 29									1
30 - 34 960 365 131 70 72 39 12 35 - 39 437 221 158 73 69 38 4 40 - 44 405 198 178 79 57 29 2 45 - 49 281 146 134 76 40 14 - 50 - 54 223 116 90 52 39 19 - 55 - 59 186 83 100 55 19 3 1 50 - 64 266 106 95 46 4 2 - 55 - 69 94 32 18 5 1 - - 3b - 69 94 32 18 5 1 - - 3b - 69 94 32 18 1 56 13 5 Juder 25 1 - - - 10 2 - 25 - 29 59 15 - - 10 2 - 30 - 34 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
35 - 39 437 221 158 73 69 38 4 40 - 44 405 198 178 79 57 29 2 45 - 49 281 146 134 76 40 14 - 50 - 54 223 116 90 52 39 19 - 55 - 59 186 83 100 55 19 3 1 30 - 64 266 106 95 46 4 2 - 35 - 69 94 32 18 5 1 - - 3business sector - total 589 145 18 1 56 13 5 Junder 25 1 - - - - - - - 30 - 34 378 61 5 1 13 6 2 35 - 39 58 26 7 - 8 - 2 40 - 44 37 20 6 - 13 3 1 45 - 49 16 11 - - 7 2 - 55 - 59 17 5 - - 3									
40 - 44	30 - 34	960	365	131	70	72	39	12	
10 - 44	35 - 39	437	221	158	73	69	38	4	
45 - 49 281 146 134 76 40 14 - 50 - 54 223 116 90 52 39 19 - 55 - 59 186 83 100 55 19 3 1 50 - 64 266 106 95 46 4 2 - 55 - 69 94 32 18 5 1 - - 5b - 69 94 32 18 5 1 - - 8business sector - total 589 145 18 1 56 13 5 Under 25 1 - - - - - - - - 25 - 29 59 15 - - 10 2 - - 30 - 34 378 61 5 1 13 6 2 2 40 - 44 37 20 6 - 13 3 1 - - 13 1 - - - 7 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
50 - 54 223 116 90 52 39 19 - 55 - 59 186 83 100 55 19 3 1 50 - 64 266 106 95 46 4 2 - 55 - 69 94 32 18 5 1 - - 8business sector - total 589 145 18 1 56 13 5 Junder 25 1 - - - - - - - - 25 - 29 59 15 - - 10 2 - - 30 - 34 378 61 5 1 13 6 2 2 40 - 44 37 20 6 - 13 3 1 - - 13 3 1 45 - 49 10 6 - - 7 2 - - - - - - - - - - - - - - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
55 - 59 186 83 100 55 19 3 1 50 - 64 266 106 95 46 4 2 - 55 - 69 94 32 18 5 1 - - 35 - 69 94 32 18 5 1 - - 3unieress sector - total 589 145 18 1 56 13 5 Junder 25 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>								-	
30 - 64 266 106 95 46 4 2 - 35 - 69 94 32 18 5 1 - - 3usiness sector - total 589 145 18 1 56 13 5 Junder 25 1 - - - - - - - - 30 - 34 378 61 5 1 13 6 2 - 35 - 39 58 26 7 - 8 - 2 2 40 - 44 37 20 6 - 13 3 1 - - 13 3 1 - - 13 3 1 - - - 13 3 1 - - - 13 3 1 - - - 13 3 1 - - - 7 2 - - - - 7 2 - - - - - - 13 1	50 - 54	223	116	90	52	39	19	-	
80 - 64 266 106 95 46 4 2 - 80 - 69 94 32 18 5 1 - - 8usiness sector - total 589 145 18 1 56 13 5 Junder 25 1 - - - - - - - - 80 - 34 378 61 5 1 13 6 2 - 80 - 34 378 61 5 1 13 6 2 - 80 - 39 58 26 7 - 8 - 2 2 - - 13 3 1 - - 13 3 1 - - 13 3 1 - - 13 3 1 - - - 13 3 1 - - - 13 3 1 - - - 7 2 - - - - 7 2 - - -	55 - 59	186	83	100	55	19	3	1	
Signature Sign								•	
Susiness sector - total 589 145 18								-	
Under 25 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<	55 - 69	94	32	18	5	1	-	-	
25 - 29 59 15 - - 10 2 - 30 - 34 378 61 5 1 13 6 2 35 - 39 58 26 7 - 8 - 2 40 - 44 37 20 6 - 13 3 1 45 - 49 16 11 - - 1 - - 50 - 54 10 6 - - 7 2 - 55 - 59 17 5 - - 3 - - 50 - 64 13 1 - - 1 - - - 30 - 64 13 1 - - 1 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -			145	18	1	56	13	5	
378 61 5 1 13 6 2 35 - 39 58 26 7 - 8 - 2 40 - 44 37 20 6 - 13 3 1 45 - 49 16 11 - 1 1 1 - 1 55 - 59 17 5 - 7 2 - 7 50 - 64 13 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jnder 25	1	-	-	-	-	-	-	
378 61 5 1 13 6 2 35 - 39 58 26 7 - 8 - 2 37 20 6 - 13 3 1 38 50 - 54 1 1 50 - 54 10 6 13 3 1	25 - 29	59	15	_	_	10	2	_	
35 - 39 58 26 7 - 8 - 2 40 - 44 37 20 6 - 13 3 1 45 - 49 16 11 - - 1 - - 50 - 54 10 6 - - 7 2 - 55 - 59 17 5 - - 3 - - 50 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 - - - 30 - 64 13 1 - - 123 54 - - 30 - 65 29 27 14 - - 18 8 - 35 - 39 34 18 - - 21 13 - 40 - 44				5	1			2	
37 20 6 - 13 3 1 15 - 49 16 11 - - 1 1 - - 1 1					į				
45 - 49 16 11 - - 1 - - 50 - 54 10 6 - - 7 2 - 55 - 59 17 5 - - 3 - - 50 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 1 - - 30 - 64 13 1 - - - 123 54 - 45 - 29 27 14 - - 18 8 - 30 - 34 60 36 - - 17 7 - 35 - 39 34 18 - - 15 11 - 40 - 44 33<					-				
50 - 54 10 6 - - 7 2 - 55 - 59 17 5 - - 3 - - 60 - 64 13 1 - - 1 - - 60 - 64 13 1 - - 1 - - 60 - 64 13 1 - - 1 - - 60 - 64 13 1 - - 11 - - 30 - 64 13 1 - - 123 54 - 30 - 64 121 2 - 123 54 - 30 - 29 27 14 - - 18 8 - 35 - 39 34 18 - - 17 7 - 35 - 39 34 18 - - 15 11 - 40 - 44 33 19 - - 15 11 - 35 - 49 29 17 -	10 - 44	37	20	6	-	13	3	1	
50 - 54 10 6 - - 7 2 - 55 - 59 17 5 - - 3 - - 60 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 - - 30 - 64 13 1 - - 1 - - 36 - 64 13 1 - - 123 54 - 30 - 64 121 2 - 123 54 - 30 - 25 29 14 - - 5 3 - 30 - 34 60 36 - - 17 7 - - 35 - 39 34 18 - - 21 13 - - 40 - 44 33 19 - - 15 11 - - 22 6 - - 50 - 54 - - 15 11 1 - 9 3 -	1 5 - 49	16	11	-	-	1	-	-	
55 - 59 17 5 - - 3 - - 60 - 64 13 1 - - 1 - - 60 - 64 13 1 - - 1 - - 30 - 60 13 1 - - 1 1 - - 30 - 25 - - - - 5 3 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -				_	_		2	_	
60 - 64 13 1 - - 1 - - Government sector - total 224 121 2 - 123 54 - Junder 25 - - - - 5 3 - 25 - 29 27 14 - - 18 8 - 30 - 34 60 36 - - 17 7 - 35 - 39 34 18 - - 21 13 - 40 - 44 33 19 - - 15 11 - 45 - 49 29 17 - - 22 6 - 50 - 54 15 11 1 - 9 3 -									
Government sector - total 224 121 2 - 123 54 - Jonder 25 - - - - 5 3 - 25 - 29 27 14 - - 18 8 - 30 - 34 60 36 - - 17 7 - 45 - 39 34 18 - - 21 13 - 40 - 44 33 19 - - 15 11 - 45 - 49 29 17 - - 22 6 - 50 - 54 15 11 1 - 9 3 -				-	-		- -	-	
Junder 25 - - - - 5 3 - 25 - 29 27 14 - - 18 8 - 30 - 34 60 36 - - 17 7 - 35 - 39 34 18 - - 21 13 - 40 - 44 33 19 - - 15 11 - 45 - 49 29 17 - - 22 6 - 50 - 54 15 11 1 - 9 3 -				=	_		-	-	
25 - 29 27 14 - - 18 8 - 30 - 34 60 36 - - 17 7 - 35 - 39 34 18 - - 21 13 - 40 - 44 33 19 - - 15 11 - 49 29 17 - - 22 6 - 50 - 54 15 11 1 - 9 3 -		1		2	-			-	
30 - 34 60 36 - - 17 7 - 35 - 39 34 18 - - 21 13 - 40 - 44 33 19 - - 15 11 - 45 - 49 29 17 - - 22 6 - 50 - 54 15 11 1 - 9 3 -		1		-	-			-	
30 - 34 60 36 - - 17 7 - 35 - 39 34 18 - - 21 13 - 40 - 44 33 19 - - 15 11 - 45 - 49 29 17 - - 22 6 - 50 - 54 15 11 1 - 9 3 -	25 - 29	27	14	-	-	18	8	-	
35 - 39 34 18 - - 21 13 - 40 - 44 33 19 - - 15 11 - 49 17 - - 22 6 - 50 - 54 15 11 1 - 9 3 -				_	_			_	
10 - 44 33 19 - - 15 11 - 15 - 49 29 17 - - 22 6 - 50 - 54 15 11 1 - 9 3 -									
.5 - 49 29 17 22 6 10 - 54 15 11 1 - 9 3 -				-	-			-	
50 - 54 15 11 1 - 9 3 -				-	-			-	
0 - 54 15 11 1 - 9 3 -	5 - 49	29	17	-	-	22	6	-	
				1	_	9		_	
				-	-			-	
80 - 64 13 3 1 - 3 1 - 55 - 69 2 1 1		13	3	1	-	3	1	-	

4.1. Full-time and part-time researchers and assistant researchers, by age and sex, 2015 (continued)

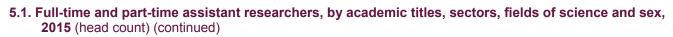
		Resea	rchers		-, - , -, -, -	Assistant re	esearchers	,
	Full	-time		t-time	Full-	time		-time
	All	Women	All	Women	All	Women	All	Women
Tertiary education – total	2475	1192	951	496	184	112	22	14
Under 25	29	12	1	3	1	1		-
25 - 29	320	150	66	38	28	21	8	5
30 - 34	522	268	126	69	42	26	10	7
35 - 39	345	177	151	73	40	25	2	-
40 - 44	335	159	172	79	29	15	1	1
45 - 49	236	118	134	76	17	8	-	-
50 - 54	198	99	89	52	23	14	-	-
55 - 59	158	76	100	55	4	1	1	1
60 - 64	240	102	94	46	-	1	-	-
65 - 69	92	31	18	5	-	-	-	-
SRBIJA – JUG	2298	1133	639	324	170	75	66	40
Under 25	11	6	-	-	2	1	4	4
25 - 29	132	68	61	39	15	10	16	8
30 - 34 35 - 39	403	218	113	57	36	7	9	6
	333	189	84	39	25	10	7	6
40 - 44 45 - 49	363	207	79 70	46	21	12	9	6
	303	146	79	40	18	11	4	2
50 - 54 55 - 59	295	121	84 64	44	24 15	14 7	12	8
	235	113		30				-
60 - 64 65 - 69	169	50	56 10	21 8	14	3	5	-
70 and over	53 1	15 -	19 -	-	-	-	-	-
Business sector - total	67	29	23	11	61	13	12	11
25 - 29	7	2	-	-	1	-	4	4
30 - 34	18	8	5	2	21	2	2	2
35 - 39	10	4	5	-	11	2	1	1
40 - 44	8	4	2	1	8	3	1	1
45 - 49	8	3	4	3	6	4	-	-
50 - 54	6	2	2	2	7	2	4	3
55 - 59	5	3	1	1	4	-	-	-
60 - 64	3	3	3	2	3	-	-	-
65 - 69	1	-	1	-	-	-	-	-
70 and over	1	-	-	-	-	-	-	-
Government sector - total	63	43	-	-	25	12	-	-
25 - 29	3	2	-	-	-	-	-	-
30 - 34	6	4	-	-	-	-	-	-
35 - 39	6	5	-	-	-	-	-	-
40 - 44	16	13	-	_	1	_	_	_
45 - 49	17	12	-	_	6	2	_	_
50 - 54	7	3	_	_	5	4	_	_
55 - 59	3	2	_	_	6	4	_	_
60 - 64	3	1	_	_	7	2	_	_
65 - 69	2	1	-	-	-	-	-	-
Tertiary education - total	2168	1061	616	313	84	50	54	29
Under 25	11	6	-	_	2	1	4	4
25 - 29	122	64	61	39	14	10	12	4
30 - 34	379	206	108	55	15	5	7	4
35 - 39	317	180	79	39	14	8	6	5
40 - 44	339	190	77	45	12	9	8	5
45 - 49	278	131	75	37	6	5	4	2
50 - 54	282	116	82	42	12	8	8	5
55 - 59	227	108	63	29	5	3	-	-
60 - 64	163	46	53	19	4	1	5	_
65 - 69	50	14	18	8	-	-	-	-
Region Šumadije i Zapadne Srbije Under 25	701	359 1	511	263	64 2	25 1	35 2	19 2
25 - 29	65	35	- 54	32	11	7	6	2
30 - 34	144	79	95	52 52	4	1	6	3
35 - 39								
40 - 44	90	56	70	30	14	3	4	4
40 - 44 45 - 49	86	42	61	35	10	4	4	2
	69	36	63	33	6	3	2	2
50 - 54 55 - 50	100	46	68	37	10	5	8	4
55 - 59	76	40	48	21	5	1	-	-
60 - 64	52	19	41	17	2	-	3	-
65 - 69								
70 and over	16 1	5	11	6	-	-	-	-



		Resea	rcners			Assistant re	searchers	
	Full-	time	Part	-time	Full-	time	Part-	time
	All	Women	All	Women	All	Women	All	Women
Business sector - total	16	7	22	11	30	8	2	1
25 - 29	3	-			1	-	-	-
30 - 34	4	3	5	2	2	1	-	-
35 - 39	1	1	5	-	8	1	-	-
40 - 44	2	-	2	1	6	2	-	-
45 - 49	1	1	4	3	4	2		-
50 - 54		-	2	2	6	2	2	1
55 - 59	2	1	1	1	3	-	-	-
60 - 64	1	1	3	2	-	-	-	•
65-69 70 and over	1 1	-	-	-	-	-	-	-
		-	-	-		-	-	-
Government sector - total	19	13	-	-	2	1	-	-
30–34	2	1	-	-	-	-	-	-
35–39	2	2	-	-	-	-	-	-
40–44	6	3 4	-	-	-	-	-	-
45–49 50–54	4 2	1	-	-	1	1	-	-
60–64	1	1	-	_	1	· ·	_	
65–69	2	1	-	-	'	-	_	
Tertiary education - total	666	339	489	252	32	16	33	18
Under 25	2	1	- E4	-	2	1	2	2
25 - 29 30 - 34	62 138	35 75	54 90	32 50	10 2	7	6 6	2
35 - 39	87	53	65	30	6	2	4	4
40 - 44	78	39	59	34	4	2	4	2
45 - 49	64	31	59	30	2	1	2	2
50 - 54	98	45	66	35	3	2	6	3
55 - 59	74	39	47	20	2	1	-	-
60 - 64	50	17	38	15	_ 1	-	3	_
65 - 69	13	4	11	6	-	-	-	-
egion Južne i Istočne Srbije	1597	774	128	61	106	50	31	21
Under 25	9 67	5	- 7	- 7	4	3	2 10	2 6
25 - 29 30 - 34		33		5		6	3	3
30 - 34 35 - 39	259 243	139 133	18 14	9	32 11	7	3 3	2
40 - 44	277	165	18	11	11	8	5 5	4
45 - 49	234	110	16	7	12	8	2	-
50 - 54	195	75	16	7	14	9	4	4
55 - 59	159	73	16	9	10	6	-	
60 - 6 4	117	31	15	4	12	3	2	_
65 - 69	37	10	8	2	-	-	-	-
Business sector - total	51	22	1		31	5	10	10
25 - 29	4	2	1	-	31	5	4	4
30 - 34	14	5	_		19	1	2	2
35 - 39	9	3	_	_	3	1	1	1
40 - 44	6	4	_	_	2	1	1	1
45 - 49	7	2	_	_	2	2	-	
50 - 54	6	2	-	_	1	_	2	2
55 - 59	3	2	-	-	1	-	-	-
60 - 64	2	2	-	-	3	-	-	
65 - 69	-	-	1	-	-	-	-	-
Government sector - total	44	30	_	_	23	11	_	
25–29	3	2	-	-	-		_	-
30-34	4	3	-	_	_	-	-	_
35–39	4	3	-	-	-	-	-	-
40-44	10	10	-	-	1	-	-	
45–49	13	8	-	-	6	2	-	
50-54	5	2	-	-	4	3	-	
55–59	3	2	-	-	6	4	-	
60–64	2	-	-	-	6	2	-	
Tertiary education - total	1502	722	127	61	52	34	21	11
Under 25	9	5	-	-	-	-	2	2
25 - 29	60	29	7	7	4	3	6	2
30 - 34	241	131	18	5	13	5	1	1
35 - 39	230	127	14	9	8	6	2	1
40 - 44	261	151	18	1 <u>1</u>	8	7	4	3
45 - 49	214	100	16	7	4	4	2	
50 - 54	184	71	16	7	9	6	2	2
55 - 59	153	69	16	9	3	2	-	
60 - 64	113	29	15	4	3	1	2	
65 - 69	37	10	7	2	-	-	-	
egion Kosovo i Metohija								
-g								

5.1. Full-time and part-time assistant researchers, by academic titles, sectors, fields of science and sex, 2015 (head count)

				Full-time a	nd part-time	assistant re	searchers			
	To	otal	Doctors	of science	· ·	of science	1	ialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
REPUBLIC OF SERBIA	1920	915	105	51	204	112	51	20	1560	732
Natural sciences	347	157	37	13	36	15	6	1	268	128
Engineering and technology	701	236	15	5	64	31	29	11	593	189
Medical and health sciences	149	100	12	9	16	9	3	1	118	81
	320	150	16	6	26	12	12	7	266	125
Agricultural sciences	237	150	14	9	24	13	-	-	199	128
Social sciences Humanities	166	122	11	9	38	32	1	-	116	81
Business sector	784	271	15	3	48	16	30	11	691	241
Natural sciences	148	45	5	1	13	2	-	-	130	42
Engineering and technology	503	141	2	_	19	3	28	10	454	128
Medical and health sciences	83	56	_	_	9	6	2	1	72	49
	23	9	3	_	5	3	_		15	6
Agricultural sciences	27	20	5	2	2	2	_	-	20	16
Social sciences										
Government sector	413	192	46	17	47	23	16	7	304	145
Natural sciences	75	38	26	9	8	4	6	1	35	24
Engineering and technology	110	44	7	1	17	8	1	1	85	34
Medical and health sciences	6	6	1	1	-	-	-	-	5	5
Agricultural sciences	204	92	9	4	17	7	9	5	169	76
Social sciences	11	7	3	2	5	4	-	-	3	1
Humanities	7	5	-	-	-	-	-	-	7	5
Tertiary education	721	450	44	31	108	72	5	2	564	345
Natural sciences	124	74	6	3	15	9	-	-	103	62
Engineering and technology	88	51	6	4	28	20	-	-	54	27
Medical and health sciences	60	38	11	8	7	3	1	-	41	27
Agricultural sciences	93	49	4	2	4	2	3	2	82	43
Social sciences	197	121	6	5	16	6	_	_	175	110
Humanities	159	117	11	9	38	32	1	-	109	76
Non-profit sector Social sciences	2 2	2 2	-	-	1 1	1 1	-	-	1 1	1 1
ODDUA OFVED	1696	901	00	46	170	06	40	20	1260	620
SRBIJA – SEVER	1686	801	98	46	179	96	49	20	1360	639
Natural sciences	334	151	36	12	34	13	6	1	258	125
Engineering and technology	576	188	10	1	58	28	29	11	479	148
Medical and health sciences	109	76	11	9	12	7	2	1	84	59
Agricultural sciences	307	145	16	6	24	11	12	7	255	121
Social sciences	219	136	14	9	22	13	-	-	183	114
Humanities	141	105	11	9	29	24	-	-	101	72
Business sector	713	248	15	3	48	16	30	11	620	218
Natural sciences	148	45	5	1	13	2	-	-	130	42
Engineering and technology	453	132	2	-	19	3	28	10	404	119
Medical and health sciences	83	56	-	-	9	6	2	1	72	49
Agricultural sciences	12	5	3	-	5	3	-	-	4	2
Social sciences	17	10	5	2	2	2	-	-	10	6
Government sector	388	180	46	17	45	22	16	7	281	134
Natural sciences	75	38	26	9	8	4	6	1	35	24
Engineering and technology	87	33	7	1	17	8	1	1	62	23
Medical and health sciences	6	6	1	1	-	-	-	-	5	5
Agricultural sciences	202	91	9	4	15	6	9	5	169	76
Social sciences	11	7	3	2	5	4	_	_	3	1
Humanities	7	5	-	-	-	-	-	-	7	5
Tertiary education	583	371	37	26	85	57	3	2	458	286
Natural sciences	111	68	5	2	13	7	-	-	93	59
Engineering and technology	36	23	1	-	22	17	-	-	13	6
Medical and health sciences	20	14	10	8	3	1	_	-	7	5
Agricultural sciences	93	49	4	2	4	2	3	2	82	43
Social sciences	189	117	6	5	14	6	-	-	169	106
Humanities	134	100	11	9	29	24	-	-	94	67
Non-profit sector	2	2	_	_	1	1	_	-	1	1
Social sciences	2	2	-	-	1	1	-	_	1	1



				Full-time a	na part-time	assistant res	searcners			
	To	tal	Doctors	of science	Masters	of science	Spec	ialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Beogradski region	1296	607	88	45	144	78	46	17	1018	467
Natural sciences	289	137	32	11	26	11	6	1	225	114
Engineering and technology	509	159	5	1	41	15	28	10	435	133
	106	74	11	9	12	7	2	1	81	57
Medical and health sciences	185	92	16	6	16	9	10	5	143	72
Agricultural sciences										
Social sciences	66	40	13	9	20	12	-	-	33	19
Humanities	141	105	11	9	29	24	-	-	101	72
Business sector	652	234	11	2	42	16	30	11	569	205
Natural sciences	124	43	1	-	7	2	-	-	116	41
Engineering and technology	419	121	2	-	19	3	28	10	370	108
Medical and health sciences	83	56	-	-	9	6	2	1	72	49
	11	5	3	_	5	3	_	_	3	2
Agricultural sciences	15	9	5	2	2	2			8	5
Social sciences	15	9	5	2	2	2	-	-	8	5
Government sector	265	126	41	17	34	18	13	4	177	87
Natural sciences	75	38	26	9	8	4	6	1	35	24
Engineering and technology	75	29	2	1	14	6	-	-	59	22
Medical and health sciences	6	6	1	1	-	-	_	-	5	5
Agricultural sciences	91	41	9	4	7	4	7	3	68	30
=	11	7	3	2	5	4	•	-	3	1
Social sciences Humanities	7	, 5	-	-	-	-	-	-	3 7	5
								_		
Tertiary education	377	245	36	26	67	43	3	2	271	174
Natural sciences	90	56	5	2	11	5	-	-	74	49
Engineering and technology	15	9	1	-	8	6	-	-	6	3
Medical and health sciences	17	12	10	8	3	1	-	-	4	3
Agricultural sciences	83	46	4	2	4	2	3	2	72	40
=	38	22	5	5	12	5	_	_	21	12
Social sciences Humanities	134	100	11	9	29	24	-	-	94	67
	2	2		_	1	1	_		1	1
Non-profit sector Social sciences	2	2	-	-	1	1	-	-	1	1
Region Vojvodine	390	194	10	1	35	18	3	3	342	172
Natural sciences	45	14	4	1	8	2	_	_	33	11
Engineering and technology	67	29	5	_	17	13	1	1	44	15
	3	2	-			-			3	2
Medical and health sciences	I		-	-			-			
Agricultural sciences	122	53	-	-	8	2	2	2	112	49
Social sciences	153	96	1	-	2	1	-	-	150	95
Business sector	61	14	4	1	6	-	-	-	51	13
Natural sciences	24	2	4	1	6	-	-	-	14	1
Engineering and technology	34	11	-	-	-	-	-	-	34	11
Agricultural sciences	1	_	_	_	_	_	_	_	1	_
Social sciences	2	1	-	-	-	-	-	-	2	1
	123	54	5	_	11	4	3	3	104	47
Government sector				_						
Engineering and technology	12 111	4 50	5	-	3 8	2 2	1 2	1 2	3 101	1 46
Agricultural sciences				_			2	2		
Tertiary education	206	126	1	-	18	14	-	-	187	112
Natural sciences	21	12	-	-	2	2	-	-	19	10
Engineering and technology	21	14	-	-	14	11	-	-	7	3
Medical and health sciences	3	2	_	-	-	-	-	-	3	2
Agricultural sciences	10	3	_	_	_	_	_	_	10	3
Social sciences	151	95	1	-	2	1	-	-	148	94
			_	_		, -	_		0	
SRBIJA – JUG	234 13	114 6	7 1	5 1	25 2	16 2	2	-	200 10	93
Natural sciences	I						-	-		3
Engineering and technology	125	48	5	4	6	3	-	-	114	41
Medical and health sciences	40	24	1	-	4	2	1	-	34	22
	13	5	_	-	2	1	-	-	11	4
Agricultural sciences										
Agricultural sciences Social sciences	18	14	_	_	2	_	_	_	16	14

5.1. Full-time and part-time assistant researchers, by academic titles, sectors, fields of science and sex, 2015 (head count) (continued)

				Full-time a	nd part-time	assistant re	searchers			
	To	otal	Doctors of	of science	Masters	of science	Spec	ialists	Universit	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Business sector	71	23	_	-	-	-	_	-	71	23
Engineering and technology	50	9	-	-	-	-	-	-	50	9
Agricultural sciences	11	4	-	-	-	-	-	-	11	4
Social sciences	10	10	-	-	-	-	-	-	10	10
Government sector	25	12	-	-	2	1	-	-	23	11
Engineering and technology	23	11	-	-	-	-	-	-	23	11
Agricultural sciences	2	1	-	-	2	1	-	-	-	-
Tertiary education	138	79	7	5	23	15	2	-	106	59
Natural sciences	13	6	1	1	2	2	-	-	10	3
Engineering and technology	52	28	5	4	6	3	-	-	41	21
Medical and health sciences	40	24	1	-	4	2	1	-	34	22
Social sciences	8	4	-	-	2	-	-	-	6	4
Humanities	25	17	-	-	9	8	1	-	15	9
Region Šumadije i Zapadne Srbije	97	43	5	3	16	10	1	-	75	30
Natural sciences	13	6	1	1	2	2	-	-	10	3
Engineering and technology	35	10	3	2	-	-	-	-	32	8
Medical and health sciences	27	14	1	-	4	2	1	-	21	12
Agricultural sciences	2	1	-	-	2	1	-	-	-	-
Social sciences	4	2	-	-	2	-	-	-	2	2
Humanities	16	10	-	-	6	5	-	-	10	5
Business sector	30	8	-	-	-	-	-	-	30	8
Engineering and technology	30	8	-	-	-	-	-	-	30	8
Government sector	2	1	-	-	2	1	-	-	-	-
Agricultural sciences	2	1	-	-	2	1	-	-	-	-
Tertiary education	65	34	5	3	14	9	1	-	45	22
Natural sciences	13	6	1	1	2	2	-	-	10	3
Engineering and technology	5	2	3	2	-	-	-	-	2	-
Medical and health sciences	27	14	1	-	4	2	1	-	21	12
Social sciences	4	2	-	-	2	-	-	-	2	2
Humanities	16	10	-	-	6	5	-	-	10	5
Region Južne i Istočne Srbije	137	71	2	2	9	6	1	-	125	63
Engineering and technology	90	38	2	2	6	3	-	-	82	33
Medical and health sciences	13	10	-	-	-	-	-	-	13	10
Agricultural sciences	11	4	-	-	-	-	-	-	11	4
Social sciences	14	12	-	-	-	-	-	-	14	12
Humanities	9	7	-	-	3	3	1	-	5	4
Business sector	41	15	-	-	-	-	-	-	41	15
Engineering and technology	20	1	-	-	-	-	-	-	20	1
Agricultural sciences	11	4	-	-	-	-	-	-	11	4
Social sciences	10	10	-	-	-	-	-	-	10	10
Government sector	23	11	-	-	-	-	-	-	23	11
Engineering and technology	23	11	-	-	-	-	-	-	23	11
Tertiary education	73	45	2	2	9	6	1	-	61	37
Engineering and technology	47	26	2	2	6	3	-	-	39	21
Medical and health sciences	13	10	-	-	-	-	-	-	13	10
Social sciences	4	2	-	-	-	-	-	-	4	2
Humanities	9	7	-	-	3	3	1	-	5	4
Region Kosovo i Metohija										

5.2. Full-time and part-time assistant researchers, by academic titles, sectors, fields of science, expressed in full-time equivalent, 2015

	Full-time and part-time assistant researchers											
	To	otal	Doctors of	of science	Masters	of science	Spec	ialists	Universit	ty degree		
	All	Women	All	Women	All	Women	All	Women	All	Women		
REPUBLIC OF SERBIA	1743.4	847.0	93.9	45.6	186.4	101.2	50.5	20.0	1412.7	680.3		
Natural sciences	306.7	143.3	35.4	13.0	31.8	13.6	6.0	1.0	233.5	115.7		
Engineering and technology	623.7	220.8	12.8	4.5	60.5	29.0	29.0	11.0	521.4	176.3		
Medical and health sciences	127.5	87.6	5.7	4.6	13.3	7.8	2.5	1.0	106.1	74.2		
Agricultural sciences	318.4	149.2	16.0	6.0	26.0	12.0	12.0	7.0	264.4	124.2		
Social sciences	209.9	130.1	13.0	8.5	22.8	11.8	-	-	174.1	109.8		
Humanities	157.2	116.1	11.0	9.0	32.0	27.0	1.0	-	113.2	80.1		
Business sector	667.0	239.3	11.0	2.5	42.1	13.9	30.0	11.0	583.9	211.9		
Natural sciences	108.5	32.1	3.4	1.0	8.8	0.6	-	-	96.3	30.5		
Engineering and technology	438.4	133.0	0.3	-	18.0	3.0	28.0	10.0	392.1	120.0		
Medical and health sciences	81.6	55.2	-	-	9.0	6.0	2.0	1.0	70.6	48.2		
Agricultural sciences	21.4	8.2	3.0	-	5.0	3.0	-	-	13.4	5.2		
Social sciences	17.1	10.8	4.3	1.5	1.3	1.3	-	-	11.5	8.0		
Government sector	412.1	191.8	45.8	16.8	47.0	23.0	16.0	7.0	303.3	145.0		
Natural sciences	75.0	38.0	26.0	9.0	8.0	4.0	6.0	1.0	35.0	24.0		
Engineering and technology	110.0	44.0	7.0	1.0	17.0	8.0	1.0	1.0	85.0	34.0		
Medical and health sciences	5.8	5.8	0.8	0.8	4=0	-	-	-	5.0	5.0		
Agricultural sciences	204.0	92.0	9.0	4.0	17.0	7.0	9.0	5.0	169.0	76.0		
Social sciences Humanities	10.3 7.0	7.0 5.0	3.0	2.0	5.0	4.0	-	-	2.3 7.0	1.0 5.0		
Tertiary education	662.4	414.0	37.1	26.3	96.3	63.3	4.5	2.0	524.5	322.4		
Natural sciences	123.2	73.2	6.0	3.0	15.0	9.0		-	102.2	61.2		
Engineering and technology	75.3	43.8	5.5	3.5	25.5	18.0	- 0 F	-	44.3	22.3		
Medical and health sciences	40.1	26.6	4.9	3.8	4.3	1.8	0.5	- 2.0	30.5	21.0		
Agricultural sciences	93.0	49.0	4.0	2.0	4.0	2.0	3.0	2.0	82.0	43.0		
Social sciences	180.5	110.3	5.7 11.0	5.0 9.0	15.5 32.0	5.5	1.0	-	159.3 106.2	99.8 75.1		
Humanities	150.2	111.1	11.0	9.0		27.0	1.0	-				
Non-profit sector Social sciences	2.0 2.0	2.0 2.0	-	-	1.0 1.0	1.0 1.0	-	-	1.0 1.0	1.0 1.0		
SRBIJA – SEVER	1545.8	755.4	87.9	41.1	171.6	92.4	49.0	20.0	1237.3	601.9		
Natural sciences	293.7	137.3	34.4	12.0	29.8	11.6	6.0	1.0	223.5	112.7		
Engineering and technology	507.4	177.5	8.3	1.0	56.0	27.0	29.0	11.0	414.1	138.5		
Medical and health sciences	101.8	70.8	5.2	4.6	12.0	7.0	2.0	1.0	82.6	58.2		
Agricultural sciences	305.4	144.2	16.0	6.0	24.0	11.0	12.0	7.0	253.4	120.2		
Social sciences	201.9	125.1	13.0	8.5	20.8	11.8	12.0	-	168.1	104.8		
Humanities	135.6	100.5	11.0	9.0	29.0	24.0	-	-	95.6	67.5		
Business sector	604.0	224.3	11.0	2.5	42.1	13.9	30.0	11.0	520.9	196.9		
Natural sciences	108.5	32.1	3.4	1.0	8.8	0.6	_	-	96.3	30.5		
Engineering and technology	388.4	124.0	0.3	_	18.0	3.0	28.0	10.0	342.1	111.0		
Medical and health sciences	81.6	55.2	-	_	9.0	6.0	2.0	1.0	70.6	48.2		
Agricultural sciences	10.4	4.2	3.0	_	5.0	3.0	_	-	2.4	1.2		
Social sciences	15.1	8.8	4.3	1.5	1.3	1.3	-	-	9.5	6.0		
Government sector	387.1	179.8	45.8	16.8	45.0	22.0	16.0	7.0	280.3	134.0		
Natural sciences	75.0	38.0	26.0	9.0	8.0	4.0	6.0	1.0	35.0	24.0		
Engineering and technology	87.0	33.0	7.0	1.0	17.0	8.0	1.0	1.0	62.0	23.0		
Medical and health sciences	5.8	5.8	0.8	8.0	-	-	-	-	5.0	5.0		
Agricultural sciences	202.0	91.0	9.0	4.0	15.0	6.0	9.0	5.0	169.0	76.0		
Social sciences	10.3	7.0	3.0	2.0	5.0	4.0	-	-	2.3	1.0		
Humanities	7.0	5.0	-	-	-	-	-	-	7.0	5.0		
Tertiary education	552.7	349.3	31.1	21.8	83.5	55.5	3.0	2.0	435.1	270.0		
Natural sciences	110.2	67.2	5.0	2.0	13.0	7.0	-	-	92.2	58.2		
Engineering and technology	32.0	20.5	1.0	-	21.0	16.0	-	-	10.0	4.5		
Medical and health sciences	14.4	9.8	4.4	3.8	3.0	1.0	-	-	7.0	5.0		
Agricultural sciences	93.0	49.0	4.0	2.0	4.0	2.0	3.0	2.0	82.0	43.0		
Social sciences	174.5	107.3	5.7	5.0	13.5	5.5	-	-	155.3	96.8		
Humanities	128.6	95.5	11.0	9.0	29.0	24.0	-	-	88.6	62.5		
Non-profit sector	2.0	2.0	-	-	1.0	1.0	-	-	1.0	1.0		
Social sciences	2.0	2.0	-	-	1.0	1.0	-	-	1.0	1.0		

5.2. Full-time and part-time assistant researchers, by academic titles, sectors, fields of science, expressed in full-time equivalent, 2015 (continued)

Beografisk region					Full-time ar	nd part-time	e assistant ı	esearchers	s		
Beogradeki region		To	otal	Doctors of	of science	Masters	of science	Spec	ialists	Universit	y degree
Natural sciences		All	Women	All	Women	All	Women	All	Women	All	Women
Engineering and technology Medical and health sciences Med	Beogradski region	1172.1	571.3	79.8	40.1	136.6	74.4	46.0	17.0	909.7	439.8
Medical and health sciences	Natural sciences	250.8	123.8	32.0	11.0	21.8	9.6	6.0	1.0	191.0	102.2
Agricultural sciences 1834 912 16.0 6.0 16.0 9.0 10.0 5.0 141.4 71.5 5.00cal sciences 62.4 37.8 11.2 8.0 12.3 8.5 18.8 10.8 95.6 67.5 Business sector 545.3 241.0 8.6 1.5 38.1 13.3 30.0 11.0 30.0 30.8 67.5 Business sector 545.3 241.0 8.6 1.5 38.1 13.3 30.0 11.0 30.0 30.8 81.0 Business sector 545.3 241.0 8.6 1.5 38.1 13.3 30.0 20.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	Engineering and technology	441.1	149.2	3.3	1.0	39.0	14.0	28.0	10.0	370.8	124.2
Social sciences 124 378 123 8.5 18.8 10.8 - - 31.3 18.1	Medical and health sciences	98.8	68.8	5.2	4.6	12.0	7.0	2.0	1.0	79.6	56.2
Humanities	Agricultural sciences	183.4	91.2	16.0	6.0	16.0	9.0	10.0	5.0	141.4	71.2
Business sector	Social sciences	62.4	37.8	12.3	8.5	18.8	10.8	-	-	31.3	18.5
Natural sciences	Humanities	135.6	100.5	11.0	9.0	29.0	24.0	-	-	95.6	67.5
Engineering and technology Medical and health sciences 9.4		I									184.6
Medical and health sciences		I									
Agricultural sciences 9.4 4.2 3.0 - 5.0 3.0 - 1.4 11.5 50cial sciences 13.1 7.8 4.3 1.5 1.3 1.3 - 7.75 5.5 5.5 Social sciences 13.1 7.8 4.3 1.5 1.3 1.3 1.3 - 7.75 5.5 5.5 Social sciences 75.0 38.0 26.0 9.0 8.0 4.0 6.0 1.0 35.0 24.1 Engineering and technology 75.0 28.0 2.0 1.0 14.0 6.0 - 5.0 5.0 22.1 Medicial and health sciences 91.0 41.0 9.0 4.0 7.0 4.0 7.0 3.0 88.0 30.0 4.0 4.0 7.0 3.0 88.0 30.0 5.0 3.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8					-						
Social sciences	Medical and health sciences				-			2.0	1.0		48.2
Covernment sector	Agricultural sciences	9.4	4.2	3.0	-	5.0	3.0	-	-	1.4	1.2
Natural sciences	Social sciences	13.1	7.8	4.3	1.5	1.3	1.3	-	-	7.5	5.0
Engineering and technology Medical and health sciences 5.8 5.8 0.8 0.8 5.0 5.0 5.0 Agricultural sciences 5.8 5.8 0.8 0.8 5.0 5.0 5.0 Agricultural sciences 910 410 9.0 4.0 7.0 4.0 7.0 3.0 68.0 30.1 50.0 50.0 50.0 50.0 50.0 50.0 50.0 5		I									87.0
Medical and health sciences											
Agricultural sciences 91.0 41.0 9.0 4.0 7.0 4.0 7.0 3.0 68.0 30.0 50.0 50.0 50.0 50.0 4.0 7.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	0 0	I				14.0	6.0	-	-		22.0
Social sciences						-		-	-		5.0
Humanities	Agricultural sciences	I						7.0	3.0		30.0
Tertiary education 360.7 232.5 30.4 21.8 65.5 41.5 3.0 2.0 261.8 167.		I				5.0		-			1.0
Natural sciences	Humanities	7.0	5.0	-	-	-	-	-	-	7.0	5.0
Engineering and technology 11.0 6.5 1.0 - 7.0 5.0 3.0 1.1 Medical and health sciences 83.0 46.0 4.0 2.0 4.0 2.0 3.0 1.0 - 7.0 3.0 Social sciences 83.0 46.0 4.0 2.0 4.0 2.0 3.0 2.0 7.2 40.0 Social sciences 37.0 21.0 5.0 5.0 11.5 4.5 - 2.0 2.5 11.1 Humanities 128.6 95.5 11.0 9.0 29.0 24.0 88.6 62.1 Non-profit sector 2.0 2.0 2.0 1.0 1.0 1.0 1.0 1.0 Social sciences 2.0 2.0 2.0 1.0 1.0 1.0 1.0 1.1 Social sciences 42.9 13.5 2.4 1.0 8.0 2.0 3.0 3.0 3.0 327.6 162.1 Natural sciences 42.9 13.5 2.4 1.0 8.0 2.0 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Tertiary education	360.7	232.5	30.4	21.8	65.5	41.5	3.0	2.0	261.8	167.2
Medical and health sciences	Natural sciences	89.7	55.7	5.0	2.0	11.0	5.0	-	-	73.7	48.7
Agricultural sciences 33.0 46.0 4.0 2.0 4.0 2.0 3.0 2.0 72.0 40.0 Social sciences 37.0 21.0 5.0 5.0 5.0 11.5 4.5 - 20.5 11.1 Humanities 128.6 95.5 11.0 9.0 29.0 24.0 - - 88.6 62.1	Engineering and technology	11.0	6.5	1.0	-	7.0	5.0	-	-	3.0	1.5
Social sciences 37.0 21.0 5.0 5.0 11.5 4.5 - - 20.5 11.5	Medical and health sciences	11.4	7.8	4.4	3.8	3.0	1.0	-	-	4.0	3.0
Social sciences 37.0 21.0 5.0 5.0 11.5 4.5 - - 20.5 11.5 Humanities 128.6 95.5 11.0 9.0 29.0 24.0 - - 88.6 62.3 Non-profit sector 2.0 2.0 - - 1.0 1.0 1.0 - - 1.0 1.0 Region Vojvodine 373.7 184.1 8.1 1.0 35.0 18.0 3.0 3.0 327.6 162. Natural sciences 42.9 13.5 2.4 1.0 8.0 2.0 - - 32.5 10.5 Engineering and technology 66.3 28.3 5.0 - 17.0 13.0 1.0 1.0 43.3 14.4 Medical and health sciences 122.0 53.0 - - - - - - - 3.0 2.0 Agricultural sciences 122.0 53.0 - - - - - - - - 3.0 2.0 Agricultural sciences 139.5 87.3 0.7 - 2.0 1.0 - - 168.8 86.5 Business sector 58.7 13.3 2.4 1.0 6.0 - - - 50.3 12.5 Business sector 58.7 13.3 2.4 1.0 6.0 - - - 50.3 12.5 Engineering and technology 33.3 10.3 - - - - - - - 1.0 Agricultural sciences 22.4 2.0 2.4 1.0 6.0 - - - - - 14.0 Engineering and technology 33.3 10.3 - - - - - - - - -	Agricultural sciences	83.0	46.0	4.0	2.0	4.0	2.0	3.0	2.0	72.0	40.0
Humanities	=	37.0	21.0	5.0	5.0	11.5	4.5	-	-	20.5	11.5
Social sciences		128.6		11.0	9.0	29.0	24.0	-	-	88.6	62.5
Natural sciences	-	I		-				-			1.0 1.0
Natural sciences 42.9 13.5 2.4 1.0 8.0 2.0 - - 32.5 10.1 Engineering and technology 66.3 28.3 5.0 - 17.0 13.0 1.0 1.0 43.3 14.4 Medical and health sciences 3.0 2.0 - - - - - - 30.0 2.0 Agricultural sciences 122.0 53.0 - - 8.0 2.0 2.0 2.0 112.0 49.4 Social sciences 139.5 87.3 0.7 - 2.0 1.0 - - 136.8 86. Business sector 58.7 13.3 2.4 1.0 6.0 - - - 50.3 12. Natural sciences 2.4 2.0 2.4 1.0 6.0 - - - 50.3 10. Engineering and technology 33.3 10.3 - - - - -	Degion Volume	272.7	404.4	0.4	4.0	25.0	40.0	2.0	2.0	227.6	460.4
Engineering and technology 66.3 28.3 5.0 - 17.0 13.0 1.0 1.0 43.3 14.3 Medical and health sciences 3.0 2.0 - - - - - - - 3.0 2.1 2.0 So.0 53.0 - - 8.0 2.0 2.0 2.0 2.0 1120 49.9 Social sciences 139.5 87.3 0.7 - 2.0 1.0 - - 136.8 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3		I						3.0			
Medical and health sciences 3.0 2.0 - - - - - 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 112.0 49.0 49.0 50.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 1.0 - - - - 58.7 13.3 2.4 1.0 6.0 - - - 50.3 12.0 2.0 2.4 1.0 6.0 - - - 50.3 10.0 2.0 2.0 2.0 1.0 2.0 2.0 2.0 2.0 1.0 2.0 2.0 2.0 1.0 2.0 2.0 2.0 1.0 4.0 3.0 2.0 2.		I						- 4.0			
Agricultural sciences 122.0 53.0 - - 8.0 2.0 2.0 2.0 112.0 49.4 Social sciences 139.5 87.3 0.7 - 2.0 1.0 - - 136.8 86.3 Business sector 58.7 13.3 2.4 1.0 6.0 - - - 50.3 12. Natural sciences 22.4 2.0 2.4 1.0 6.0 - - - 50.3 12. Regineering and technology 33.3 10.3 - - - - - - 1.0 1.1 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0	I						1.0			
Social sciences								-			2.0
Business sector 58.7 13.3 2.4 1.0 6.0 - - - 50.3 12.3 Natural sciences 22.4 2.0 2.4 1.0 6.0 - - - 14.0 1.0 Engineering and technology 33.3 10.3 - - - - - - - 33.3 10.3 Agricultural sciences 1.0 - - - - - - - - -	=	1						2.0			
Natural sciences 22.4 2.0 2.4 1.0 6.0 - - 14.0 1.1 Engineering and technology 33.3 10.3 - - - - - - 33.3 10.3 Agricultural sciences 1.0 - - - - - - 1.0 Social sciences 2.0 1.0 - - - - - 2.0 1.0 Government sector 123.0 54.0 5.0 - 11.0 4.0 3.0 3.0 104.0 47.4 Engineering and technology 12.0 4.0 5.0 - 3.0 2.0 1.0 1.0 3.0 1.1 Tertiary education 192.0 116.8 0.7 - 18.0 14.0 - - 173.3 102.1 Tertiary education 192.0 116.8 0.7 - 18.0 14.0 - - 173.3 102.1							1.0				
Engineering and technology 33.3 10.3 - - - - - - 33.3 10.3		I					-	-	-		
Agricultural sciences 1.0				2.4	1.0	6.0	-	-	-		
Social sciences 2.0 1.0 - - - - - - 2.0 1.1 Government sector 123.0 54.0 5.0 - 11.0 4.0 3.0 3.0 104.0 47.0 Engineering and technology 12.0 4.0 5.0 - 3.0 2.0 1.0 1.0 3.0 1.1 Agricultural sciences 111.0 50.0 - - 8.0 2.0 2.0 2.0 101.0 46.0 Tertiary education 192.0 116.8 0.7 - 18.0 14.0 - - 173.3 102.1 Tertiary education 192.0 116.8 0.7 - 18.0 14.0 - - 173.3 102.1 Tertiary education 192.0 116.8 0.7 - 18.0 14.0 - - 173.3 102.1 Buth and an including and technology 21.0 14.0 - - -			10.3	-	-	-	-	-	-		10.3
Government sector 123.0 54.0 5.0 - 11.0 4.0 3.0 3.0 104.0 47.0 Engineering and technology 12.0 4.0 5.0 - 3.0 2.0 1.0 1.0 3.0 1.0 Agricultural sciences 111.0 50.0 - - 8.0 2.0 2.0 101.0 46.0 Tertiary education 192.0 116.8 0.7 - 18.0 14.0 - - 173.3 102.4 Natural sciences 20.5 11.5 - - 2.0 2.0 - - 18.5 9.9 Engineering and technology 21.0 14.0 - - 14.0 11.0 - - 18.5 9.9 Medical and health sciences 3.0 2.0 - - - - - - - - - - - - - - - - - - -	•	I	1.0	-	-	-		-			1.0
Engineering and technology 12.0 4.0 5.0 - 3.0 2.0 1.0 1.0 3.0 1.0 Agricultural sciences 111.0 50.0 - - 8.0 2.0 2.0 2.0 101.0 46.0	Government sector	123.0		5.0	_	11.0	4.0	3.0	3.0	104.0	
Agricultural sciences 111.0 50.0 - - 8.0 2.0 2.0 2.0 101.0 46.0 Tertiary education 192.0 116.8 0.7 - 18.0 14.0 - - 173.3 102.8 Natural sciences 20.5 11.5 - - 2.0 2.0 - - 18.5 9.8 Engineering and technology 21.0 14.0 - - 2.0 2.0 - - 18.5 9.8 Engineering and technology 21.0 14.0 - - - 2.0 2.0 - - 7.0 3.0 Medical sciences 3.0 2.0 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -		I			_						
Natural sciences 20.5 11.5 - - 2.0 2.0 - - 18.5 9.8 Engineering and technology 21.0 14.0 - - 14.0 11.0 - - 7.0 3.0 Medical and health sciences 3.0 2.0 - - - - - - - 3.0 2.0 Agricultural sciences 10.0 3.0 - - - - - - - 10.0 3.0 Social sciences 137.5 86.3 0.7 - 2.0 1.0 - - 134.8 85.3 SRBIJA – JUG 197.7 91.6 6.0 4.5 14.8 8.8 1.5 - 175.4 78. Natural sciences 13.0 6.0 1.0 1.0 2.0 2.0 - - 10.0 3.0 Engineering and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.4 Medical and health sciences 25.8 </td <td></td> <td>I</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>46.0</td>		I			-						46.0
Natural sciences 20.5 11.5 - - 2.0 2.0 - - 18.5 9.8 Engineering and technology 21.0 14.0 - - 14.0 11.0 - - 7.0 3.0 Medical and health sciences 3.0 2.0 - - - - - - - 3.0 2.0 Agricultural sciences 10.0 3.0 - - - - - - - 10.0 3.0 Social sciences 137.5 86.3 0.7 - 2.0 1.0 - - 134.8 85.3 SRBIJA – JUG 197.7 91.6 6.0 4.5 14.8 8.8 1.5 - 175.4 78. Natural sciences 13.0 6.0 1.0 1.0 2.0 2.0 - - 10.0 3.0 Engineering and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.4 Medical and health sciences 25.8 </td <td>Tertiary education</td> <td>192.0</td> <td>116.8</td> <td>0.7</td> <td>_</td> <td>18.0</td> <td>14.0</td> <td>_</td> <td>_</td> <td>173.3</td> <td>102.8</td>	Tertiary education	192.0	116.8	0.7	_	18.0	14.0	_	_	173.3	102.8
Engineering and technology 21.0 14.0 - - 14.0 11.0 - - 7.0 3.1 Medical and health sciences 3.0 2.0 - - - - - - 3.0 2.0 Agricultural sciences 10.0 3.0 - - - - - - 10.0 3.0 Social sciences 137.5 86.3 0.7 - 2.0 1.0 - - 134.8 85.3 SRBIJA – JUG 197.7 91.6 6.0 4.5 14.8 8.8 1.5 - 175.4 78.4 Natural sciences 13.0 6.0 1.0 1.0 2.0 2.0 - - 10.0 37.8 Medical and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.8 Medical and health sciences 25.8 16.8 0.5 - 1.3 0.8 0.5 - 23.5 16.0 Agricultural sciences 13.0 5.0	•				_			_			9.5
Medical and health sciences 3.0 2.0 - - - - - - - - - - - - - - - - - - - - - - 10.0 3.0 2.0 Social sciences 137.5 86.3 0.7 - 2.0 1.0 - - 134.8 85.3 SRBIJA – JUG 197.7 91.6 6.0 4.5 14.8 8.8 1.5 - 175.4 78.4 Natural sciences 13.0 6.0 1.0 1.0 2.0 2.0 - - 10.0 3.0 Engineering and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.3 Medical and health sciences 25.8 16.8 0.5 - 1.3 0.8 0.5 - 23.5 16.0 Agricultural sciences 13.0 5.0 - - 2.0 1.0 - - 11.0 4.4 Social sciences </td <td></td> <td>I</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td>_</td> <td></td> <td>3.0</td>		I		_				_	_		3.0
Agricultural sciences 10.0 3.0 - - - - - - 10.0 3.0 Social sciences 137.5 86.3 0.7 - 2.0 1.0 - - 134.8 85.3 SRBIJA – JUG 197.7 91.6 6.0 4.5 14.8 8.8 1.5 - 175.4 78.4 Natural sciences 13.0 6.0 1.0 1.0 2.0 2.0 - - 10.0 3.0 Engineering and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.3 Medical and health sciences 25.8 16.8 0.5 - 1.3 0.8 0.5 - 23.5 16.0 Agricultural sciences 13.0 5.0 - - 2.0 1.0 - - 11.0 4.4 Social sciences 8.0 5.0 - - 2.0 - - - 6.0 5.0				_				_	_		2.0
Social sciences 137.5 86.3 0.7 - 2.0 1.0 - - 134.8 85.3 SRBIJA – JUG 197.7 91.6 6.0 4.5 14.8 8.8 1.5 - 175.4 78.4 Natural sciences 13.0 6.0 1.0 1.0 2.0 2.0 - - 10.0 3.1 Engineering and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.8 Medical and health sciences 25.8 16.8 0.5 - 1.3 0.8 0.5 - 23.5 16.0 Agricultural sciences 13.0 5.0 - - 2.0 1.0 - - 11.0 4.4 Social sciences 8.0 5.0 - - 2.0 - - - 6.0 5.0				_				_			3.0
Natural sciences 13.0 6.0 1.0 1.0 2.0 2.0 - - 10.0 3.1 Engineering and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.4 Medical and health sciences 25.8 16.8 0.5 - 1.3 0.8 0.5 - 23.5 16.4 Agricultural sciences 13.0 5.0 - - 2.0 1.0 - - 11.0 4.4 Social sciences 8.0 5.0 - - 2.0 - - - 6.0 5.0	•	I						-			85.3
Natural sciences 13.0 6.0 1.0 1.0 2.0 2.0 - - 10.0 3.1 Engineering and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.4 Medical and health sciences 25.8 16.8 0.5 - 1.3 0.8 0.5 - 23.5 16.4 Agricultural sciences 13.0 5.0 - - 2.0 1.0 - - 11.0 4.4 Social sciences 8.0 5.0 - - 2.0 - - - 6.0 5.0	SDRIIA IIIG	107.7	01.6	6.0	A E	140	0.0	1 F		175 /	70 4
Engineering and technology 116.3 43.3 4.5 3.5 4.5 2.0 - - 107.3 37.4 Medical and health sciences 25.8 16.8 0.5 - 1.3 0.8 0.5 - 23.5 16.4 Agricultural sciences 13.0 5.0 - - 2.0 1.0 - - 11.0 4.4 Social sciences 8.0 5.0 - - 2.0 - - - 6.0 5.0									-		
Medical and health sciences 25.8 16.8 0.5 - 1.3 0.8 0.5 - 23.5 16.0 Agricultural sciences 13.0 5.0 - - 2.0 1.0 - - 11.0 4.0 Social sciences 8.0 5.0 - - 2.0 - - - 6.0 5.0		I									
Agricultural sciences 13.0 5.0 2.0 1.0 11.0 4.0 Social sciences 8.0 5.0 2.0 6.0 5.0		I									
Social sciences 8.0 5.0 2.0 6.0 5.0		I						0.5			
	=							-			
	Humanities	21.6	15.6	-	-	3.0	3.0	1.0	-	17.6	5.0 12.6

5.2. Full-time and part-time assistant researchers, by academic titles, sectors, fields of science, expressed in full-time equivalent, 2015 (continued)

				Full-time ar	nd part-time	e assistant r	esearchers	S		
	To	otal	Doctors	of science	Masters	of science	Spec	ialists	Universi	ty degree
	All	Women	All	Women	All	Women	All	Women	All	Women
Business sector	63.0	15.0	_	_	_	-	_	_	63.0	15.0
Engineering and technology	50.0	9.0	-	-	-	-	-	-	50.0	9.0
Agricultural sciences	11.0	4.0	-	-	-	-	-	-	11.0	4.0
Social sciences	2.0	2.0	-	-	-	-	-	-	2.0	2.0
Government sector	25.0	12.0	-	-	2.0	1.0	-	-	23.0	11.0
Engineering and technology	23.0	11.0	-	-	-	-	-	-	23.0	11.0
Agricultural sciences	2.0	1.0	-	-	2.0	1.0	-	-	-	-
Tertiary education	109.7	64.7	6.0	4.5	12.8	7.8	1.5	-	89.4	52.4
Natural sciences	13.0	6.0	1.0	1.0	2.0	2.0	-	-	10.0	3.0
Engineering and technology	43.3	23.3	4.5	3.5	4.5	2.0	-	-	34.3	17.8
Medical and health sciences	25.8	16.8	0.5	-	1.3	0.8	0.5	-	23.5	16.0
Social sciences	6.0	3.0	-	-	2.0	-	-	-	4.0	3.0
Humanities	21.6	15.6	-	-	3.0	3.0	1.0	-	17.6	12.6
Region Šumadije i Zapadne Srbije	79.3	34.4	4.5	3.0	7.3	3.8	0.5	-	67.1	27.6
Natural sciences	13.0	6.0	1.0	1.0	2.0	2.0	-	_	10.0	3.0
Engineering and technology	35.0	10.0	3.0	2.0	-	-	-	-	32.0	8.0
Medical and health sciences	12.8	6.8	0.5	-	1.3	0.8	0.5	-	10.5	6.0
Agricultural sciences	2.0	1.0	-	-	2.0	1.0	-	-	-	-
Social sciences	4.0	2.0	-	-	2.0	-	-	-	2.0	2.0
Humanities	12.6	8.6	-	-	-	-	-	-	12.6	8.6
Business sector	30.0	8.0	-	-	-	-	-	-	30.0	8.0
Engineering and technology	30.0	8.0	-	-	-	-	-	-	30.0	8.0
Government sector	2.0	1.0	-	-	2.0	1.0	-	-	-	-
Agricultural sector	2.0	1.0	-	-	2.0	1.0	-	-	-	-
Tertiary education	47.4	25.4	4.5	3.0	5.3	2.8	0.5	-	37.1	19.6
Natural sciences	13.0	6.0	1.0	1.0	2.0	2.0	-	-	10.0	3.0
Engineering and technology	5.0	2.0	3.0	2.0	-	-	-	-	2.0	-
Medical and health sciences	12.8	6.8	0.5	-	1.3	8.0	0.5	-	10.5	6.0
Social sciences	4.0	2.0	-	-	2.0	-	-	-	2.0	2.0
Humanities	12.6	8.6	-	-	-	-	-	-	12.6	8.6
Region Južne i Istočne Srbije	118.3	57.3	1.5	1.5	7.5	5.0	1.0	-	108.3	50.8
Engineering and technology	81.3	33.3	1.5	1.5	4.5	2.0	-	-	75.3	29.8
Medical and health sciences	13.0	10.0	-	-	-	-	-	-	13.0	10.0
Agricultural sciences	11.0	4.0	-	-	-	-	-	-	11.0	4.0
Social sciences Humanities	4.0 9.0	3.0 7.0	-	-	3.0	3.0	1.0	-	4.0 5.0	3.0 4.0
					0.0	0.0				
Business sector	33.0 20.0	7.0 1.0	-	-	-	-	-	-	33.0 20.0	7.0 1.0
Engineering and technology Agricultural sciences	11.0	4.0	_	_	_	_	_	-	11.0	4.0
Social sciences	2.0	2.0	-	_	_	_	_	_	2.0	2.0
Government sector Engineering and technology	23.0 23.0	11.0 11.0	-	-	-	-	-	-	23.0 23.0	11.0 11.0
								-		
Tertiary education	62.3	39.3	1.5	1.5	7.5	5.0	1.0	-	52.3	32.8
Engineering and technology Medical and health sciences	38.3 13.0	21.3 10.0	1.5	1.5	4.5	2.0	-	-	32.3 13.0	17.8 10.0
Social sciences	2.0	1.0	-	-	-	-	-	-	2.0	1.0
Humanities	9.0	7.0	-	-	3.0	3.0	1.0	-	5.0	4.0
Region Kosovo i Metohija										

6.1. Engaged on the basis of work on contract and author contract (head count), 2015

								Othor	
	То		Resea			esearchers	Oth		
	All	Women	All	Women	All	Women	All	Women	
REPUBLIC OF SERBIA	1951	874	1556	724	228	76 22	164	72	
Natural sciences Engineering and technology	597 541	237 140	465 351	167 91	53 113	22 27	76 77	46 22	
Medical and health sciences	395	303	395	303		-	-	-	
Agricultural sciences Social sciences	42 201	19 88	27 171	16 76	15 28	3 12	2	-	
Humanities	175	87	147	70 71	19	12	9	4	
Business sector	618	343	469	310	64	6	82	25	
Natural sciences	46	13	20	1	10	2	13	8	
Engineering and technology	196	42	75 260	21	53	4	68	17	
Medical and health sciences Agricultural sciences	369 4	286 2	369 3	286 2	1	-	-	-	
Social sciences	3	-	2	_	-	-	1	-	
Government sector	356	171	259	120	33	15	64	36	
Natural sciences	219	98	158	62	6	4	55	32	
Engineering and technology Medical and health sciences	22 12	8 7	11 12	6 7	11	2	-	_	
Agricultural sciences	6	3	6	3	-	-	-	-	
Social sciences	22	17	19	17	3	-	-	-	
Humanities	75	38	53	25	13	9	9	4	
Tertiary education Natural sciences	945 332	353 126	828 287	294 104	100 37	49 16	17 8	10 6	
Engineering and technology	305	86	265	64	32	18	8	4	
Medical and health sciences	14	10	14	10	-	-	-	-	
Agricultural sciences	18	11	18	11	- 25	- 10	-	-	
Social sciences Humanities	176 100	71 49	150 94	59 46	25 6	12 3	1 -	-	
Non-profit sector	32	7	-	-	31	6	1	1	
Engineering and technology	18	4	_	_	17	3	1	1	
Agricultural sciences	14	3	-	-	14	3	-	-	
SRBIJA – SEVER	1747	787	1388	651	203	66	153	68	
Natural sciences	579	227	454	161	46	18	76	46	
Engineering and technology	446	109	277	66	103	25	66	18	
Medical and health sciences Agricultural sciences	395 42	303 19	395 27	303 16	15	3	-	-	
Social sciences	177	73	155	65	20	8	2	-	
Humanities	108	56	80	40	19	12	9	4	
Business sector	579	334	442	302	55	5	79	25	
Natural sciences	46	13	20 49	1	10 44	2 3	13	8	
Engineering and technology Medical and health sciences	158 369	33 286	369	13 286	- 44	-	65 -	17	
Agricultural sciences	4	2	3	2	1	-	-	-	
Social sciences	2	-	1	-	-	-	1	-	
Government sector	355	171	258	120	33	15	64	36	
Natural sciences Engineering and technology	219 21	98 8	158 10	62 6	6 11	4 2	55	32	
Medical and health sciences	12	7	12	7	-	-	-	-	
Agricultural sciences	6	.3	6	.3	-	-	-	-	
Social sciences Humanities	22 75	17 38	19 53	17 25	3 13	9	9	4	
	781	27 5	688	23 229	84	40	9	6	
Tertiary education Natural sciences	314	116	276	98	30	40 12	8	6	
Engineering and technology	249	64	218	47	31	17	-	-	
Medical and health sciences	14	10	14	10	-	-	-	-	
Agricultural sciences Social sciences	18 153	11 56	18 135	11 48	- 17	8	1	-	
Humanities	33	18	27	15	6	3	-	-	
Non-profit sector	32	7	-	-	31	6	1	1	
Engineering and technology	18	4	-	-	17	3	1	1	
Agricultural sciences	14	3	-	-	14	3	-	-	
Beogradski region	1587	733	1294	621	139	42	151	68	
Natural sciences	553	224	437	160	38	16	75	46	
Engineering and technology Medical and health sciences	374 395	81 303	248 395	57 303	61	6	65 -	18	
Agricultural sciences	7	5	6	5	1	-	-	-	
Social sciences	150	64	128	56	20	8	2	-	
Humanities	108	56	80	40	19	12	9	4	
Business sector Natural sciences	552 23	330 11	425 6	300 1	47 2	3	77 12	25 8	
Engineering and technology	154	31	6 46	11	2 44	3	64	8 17	
Medical and health sciences	369	286	369	286	-	-	-	-	
Agricultural sciences	4	2	3	2	1	-	-	-	
Social sciences	2	-	1	-	-	-	1	-	
Government sector Natural sciences	340 219	168 98	254 158	119 62	22 6	13 4	64 55	36 32	
Engineering and technology	10	96 6	100	6	-	4 -	-	32	
Medical and health sciences	12	7	12	7	-	-	-	-	
Agricultural sciences	2	2	2	2	_	_	_	_	



					1	d author contrac		
		tal	Resea			esearchers	Othe	
	All	Women	All	Women	All	Women	All	Women
Social sciences Humanities	22 75	17 38	19 53	17 25	3 13	- 9	- 9	
Tertiary education	677	231	615	202	53	23	9	
Natural sciences	311	115	273	97	30	12	8	
Engineering and technology	192	40	192	40	-	-	-	
Medical and health sciences Agricultural sciences	14	10 1	14 1	10 1	-	-	-	
Social sciences	126	47	108	39	17	8	1	
Humanities	33	18	27	15	6	3	-	
Non-profit sector Engineering and technology	18 18	4 4	-	-	17 17	3 3	1 1	
egion Vojvodine Natural sciences	1 60 26	54 3	94 17	30 1	64 8	24 2	2 1	
Engineering and technology	72	28	29	9	42	19	1	
Agricultural sciences	35	14	21	11	14	3	-	
Social sciences	27	9	27	9	-	-	-	
Business sector	27	4	17	2	8	2	2	
Natural sciences Engineering and technology	23	2 2	14 3	2	8	2	1 1	
						•		
Government sector Engineering and technology	15 11	3 2	4	1	11 11	2 2	-	
Agricultural sciences	4	1	4	1	-	-	-	
Tertiary education	104	44	73	27	31	17	-	
Natural sciences	_3	1	3	<u>1</u>	_ -	.=	-	
Engineering and technology	57 17	24 10	26 17	7 10	31	17	-	
Agricultural sciences Social sciences	27	9	27	9	-	-	-	
Non-profit sector	14	3	_	_	14	3	_	
Agricultural sciences	14	3	-	-	14	3	-	
RBIJA – JUG	204	87	168	73	25	10	11	
Natural sciences	18	10	11	6	7	4		
Engineering and technology	95 24	31 15	74 16	25 11	10	2	11	
Social sciences Humanities	67	31	67	31	8 -	4	-	
Business sector	39	9	27	8	9	1	3	
Engineering and technology	38	9	26	8	9	i	3	
Social sciences	1	-	1	-	-	-	-	
Government sector	1	-	1	-	-	-	-	
Engineering and technology	1	-	1	-	-	-	-	
Tertiary education Natural sciences	164 18	78 10	140 11	65 6	16 7	9 4	8	
Engineering and technology	56	22	47	17	1	1	8	
Social sciences	23	15	15	11	8	4	-	
Humanities	67	31	67	31	-	-	-	
egion Južne i Istočne Srbije	130	62	117	56	11	6	2	
Natural sciences	18	10	11	6	7	4	-	
Engineering and technology Social sciences	29 16	10 11	23 16	8 11	4	2	2	
Humanities	67	31	67	31	-	-	-	
Business sector	28	9	23	8	3	1	2	
Engineering and technology	27	9	22	8	3	1	2	
Social sciences	1	-	1	-	-	-	-	
Tertiary education Natural scienes	102 18	53 10	94 11	48 6	8 7	5 4	-	
Engineering and technology	2	1	1	-	1	1	-	
Social sciences	15	11	15	11	-	-	-	
Humanities	67	31	67	31	-	-	-	
Region Južnne i Istočne Srbije	74	25	51	17	14	4	9	
Engineering and technology	66	21	51	17	6	-	9	
Social sciences	8	4	-	-	8	4	-	
Business sector Engineering and technology	11 11	-	4 4	-	6 6	-	1 1	
Government sector	1	-	1	-	-	-	-	
Engineering and technology	1	-	1	-	-	-	-	
Tertiary education	62	25	46	17	8	4	8	
Engineering and technology Social sciences	54 8	21 4	46	17	- 8	- 4	8	
		4	-	-	0	4	-	
gion Kosovo i Metohija								

6.2. Engaged on the basis of work on contract and author contract, expressed in full-time equivalent, 2015

						d author contra		
	All	Women	All	rchers Women	Assistant re	esearchers Women	All	ner Women
REPUBLIC OF SERBIA Natural sciences	927.2 430.6	347.0 166.3	662.6 319.2	250.7 111.9	134.8 48.4	46.1 18.6	128.9 62.1	49.5 35.2
Engineering and technology	271.7	73.5	142.9	41.8	68.7	19.5	60.1	12.2
Medical and health sciences	33.4	25.7	33.4	25.7		<u>.</u> -	-	-
Agricultural sciences Social sciences	12.1 99.9	7.0 36.7	11.7 89.1	6.9 33.1	0.4 9.5	0.1 3.6	1.3	-
Humanities	79.6	37.9	66.4	31.4	7.8	3.0 4.4	5.5	2.1
Business sector	187.9	46.1	89.2	31.9	39.0	2.6	58.8	11.0
Natural sciences	31.9	6.0	16.0	0.3	9.0	2.0	6.0	3.1
Engineering and technology	123.7	17.1	42.0	8.6	29.9	0.6	51.8	7.9
Medical and health sciences	28.9 0.4	22.8	28.9	22.8 0.2	0.1	-	-	-
Agricultural sciences Social sciences	3.0	0.2	0.3 2.0	0.2	0.1	-	1.0	_
Government sector	192.4	81.6	126.2	47.6	11.7	4.8	54.5	29.1
Natural sciences	142.7	59.4	88.5	29.2	5.2	3.2	49.0	27.0
Engineering and technology	12.1	5.5	8.7	5.2	3.4	0.3	-	
Medical and health sciences	2.5	1.7	2.5	1.7	-	-	-	-
Agricultural sciences	2.3	1.1	2.3	1.1	-	-	-	-
Social sciences Humanities	5.5 27.3	2.2 11.8	4.2 20.1	2.2 8.3	1.3 1.8	- 1.4	5.5	- 2.1
Tertiary education Natural sciences	543.0 256.0	218.3 100.9	447.2 214.7	171.2 82.4	80.4 34.2	38.0 13.4	15.4 7.1	9.1 5.1
Engineering and technology	132.2	50.0	92.2	28.0	32.0	18.0	8.0	4.0
Medical and health sciences	2.0	1.2	2.0	1.2	-	-	-	-
Agricultural sciences	9.1	5.6	9.1	5.6			-	-
Social sciences Humanities	91.4 52.3	34.5	82.9	30.9 23.1	8.2	3.6	0.3	-
		26.1	46.3	23.1	6.0	3.0	-	-
Non-profit sector	4.0 3.7	1.0 0.9	-	-	3.7 3.4	0.7 0.6	0.3	0.3 0.3
Engineering and technology Agricultural sciences	0.3	0.9	-	_	0.3	0.6	0.3	0.3
7 ignoditarar colonicos	0.0	0.1			0.0	0.1		
RBIJA – SEVER	808.6	299.0	563.6	210.7	124.2	42.1	120.0	45.5
Natural sciences	418.2	158.1	311.0	105.1	44.2	17.2	62.1	35.2
Engineering and technology Medical and health sciences	198.5 33.4	50.6 25.7	82.7 33.4	24.3 25.7	64.7	18.1	51.1	8.2
Agricultural sciences	12.1	7.0	11.7	6.9	0.4	0.1	_	_
Social sciences	89.0	30.0	80.6	27.6	7.1	2.4	1.3	-
Humanities	57.5	27.7	44.3	21.2	7.8	4.4	5.5	2.1
Business sector	170.7	45.2	76.0	31.4	36.0	2.2	57.8	11.0
Natural sciences	31.9	6.0	16.0	0.3	9.0	2.0	6.0	3.1
Engineering and technology Medical and health sciences	107.5 28.9	16.2 22.8	29.8 28.9	8.1 22.8	26.9	0.2	50.8	7.9
Agricultural sciences	0.4	0.2	0.3	0.2	0.1	-	-	_
Social sciences	2.0	-	1.0	-	-	_	1.0	-
Government sector	191.4	81.6	125.2	47.6	11.7	4.8	54.5	29.1
Natural sciences	142.7	59.4	88.5	29.2	5.2	3.2	49.0	27.0
Engineering and technology	11.1	5.5	7.7	5.2	3.4	0.3	-	-
Medical and health sciences	2.5	1.7	2.5 2.3	1.7	-	-	-	-
Agricultural sciences Social sciences	2.3 5.5	1.1 2.2	2.3 4.2	1.1 2.2	1.3	-	-	-
Humanities	27.3	11.8	20.1	8.3	1.8	1.4	5.5	2.1
Tertiary education	442.6	171.2	362.4	131.7	72.8	34.4	7.4	5.1
Natural sciences	243.6	92.7	206.5	75.6	30.0	12.0	7.1	5.1
Engineering and technology	76.2	28.0	45.2	11.0	31.0	17.0	-	-
Medical and health sciences	2.0	1.2	2.0	1.2	-	-	-	-
Agricultural sciences Social sciences	9.1 81.5	5.6 27.8	9.1 75.4	5.6 25.4	5.8	2.4	0.3	-
Humanities	30.2	15.9	24.2	12.9	6.0	3.0	0.5	_
Non-profit sector	4.0	1.0			3.7	0.7	0.3	0.3
Engineering and technology	3.7	0.9	_	-	3.4	0.6	0.3	0.3
Agricultural sciences	0.3	0.1	-	-	0.3	0.1	-	-
		200.0	400.0	404.4	04.5	20.0	447.0	4
Beogradski region Natural sciences	696.6 394.9	260.0 156.0	496.3 296.7	191.1 105.0	81.5 36.2	22.8 15.2	117.9 61.1	45.5 35.2
Engineering and technology	134.1	24.3	53.7	15.3	30.2	0.8	50.1	8.2
Medical and health sciences	33.4	25.7	33.4	25.7	-	-	-	-
Agricultural sciences	1.9	1.7	1.8	1.7	0.1			-
Social sciences	74.9	24.7	66.5	22.3	7.1	2.4	1.3	- 0.1
Humanities	57.5	27.7	44.3	21.2	7.8	4.4	5.5	2.1
Business sector	143.7	41.2	59.0	29.4	28.0	0.2	55.8	11.0
Natural sciences	8.9 103.5	4.0 14.2	2.0 26.8	0.3 6.1	1.0 26.9	0.2	5.0 49.8	3.1 7.9
Engineering and technology Medical and health sciences	28.9	22.8	26.8 28.9	22.8	26.9	0.2	49.0	7.9
Agricultural sciences	0.4	0.2	0.3	0.2	0.1	-	_	-



	Engaged on the basis of work on contract and author contract Total Researchers Assistant researchers						Other		
	All	tal Women	All	Women	Assistant r	esearchers Women	All	her Women	
Government sector Natural sciences	186.6 142.7	81.1 59.4	123.8 88.5	47.4 29.2	8.3 5.2	4.6 3.2	54.5 49.0	29.1 27.0	
Engineering and technology	7.7	5.2	7.7	5.2	-	-	-	-	
Medical and health sciences	2.5 0.9	1.7	2.5	1.7	-	-	-	-	
Agricultural sciences Social sciences	5.5	0.9 2.2	0.9 4.2	0.9 2.2	1.3	-	-	-	
Humanities	27.3	11.8	20.1	8.3	1.8	1.4	5.5	2.1	
Tertiary education	362.7	136.8	313.5	114.3	41.8	17.4	7.4	5.1	
Natural sciences	243.3	92.6	206.2	75.5	30.0	12.0	7.1	5.1	
Engineering and technology Medical and health sciences	19.2 2.0	4.0 1.2	19.2 2.0	4.0 1.2	-	-	-	-	
Agricultural sciences	0.6	0.6	0.6	0.6	-	-	-	-	
Social sciences	67.4	22.5	61.3	20.1	5.8	2.4	0.3	-	
Humanities	30.2	15.9	24.2	12.9	6.0	3.0	-	-	
Non-profit sector Engineering and technology	3.7 3.7	0.9 0.9	-	-	3.4 3.4	0.6 0.6	0.3 0.3	0.3 0.3	
Region Vojvodine	112.0	39.0	67.3	19.6	42.7	19.4	2.0	_	
Natural sciences	23.3	2.1	14.3	0.1	8.0	2.0	1.0	-	
Engineering and technology Agricultural sciences	64.4 10.2	26.3 5.3	29.0 9.9	9.0 5.2	34.4 0.3	17.3 0.1	1.0	-	
Social sciences	14.1	5.3 5.3	14.1	5.3	0.5	-	-	_	
Business sector	27.0	4.0	17.0	2.0	8.0	2.0	2.0	_	
Natural sciences	23.0	2.0	14.0	-	8.0	2.0	1.0	-	
Engineering and technology	4.0	2.0	3.0	2.0	-	-	1.0	-	
Government sector	4.8	0.5	1.4	0.2	3.4	0.3	-	-	
Engineering and technology Agricultural sciences	3.4 1.4	0.3 0.2	1.4	0.2	3.4	0.3	-	-	
Tertirary education	79.9	34.4	48.9	17.4	31.0	17.0	_	_	
Natural sciences	0.3	0.1	0.3	0.1	31.0	-	-	-	
Engineering and technology	57.0	24.0	26.0	7.0	31.0	17.0	-	-	
Agricultural sciences Social sciences	8.5 14.1	5.0 5.3	8.5 14.1	5.0 5.3	-	-	-	-	
	0.3	0.1	14.1		0.3	0.1	-	-	
Non-profit sector Agricultural sciences	0.3	0.1	-	-	0.3	0.1	-	-	
SRBIJA – JUG	118.6	48.0	99.0	40.0	10.6	4.0	9.0	4.0	
Natural sciences	12.4	8.2	8.2	6.8	4.2	1.4	-	-	
Engineering and technology	73.2 10.9	22.9 6.7	60.2 8.5	17.5	4.0 2.4	1.4	9.0	4.0	
Social sciences Humanities	22.1	10.2	22.1	5.5 10.2	2.4	1.2	-	_	
Business sector	17.2	0.9	13.2	0.5	3.0	0.4	1.0	_	
Engineering and technology	16.2	0.9	12.2	0.5	3.0	0.4	1.0	-	
Social sciences	1.0	-	1.0	-	-	-	-	-	
Government sector Engineering and technology	1.0 1.0	-	1.0 1.0	-	-	-	-	-	
0 0	100.4	47.1	84.8	39.5	7.6	3.6	8.0	4.0	
Tertiary education Natural sciences	12.4	8.2	8.2	6.8	4.2	1.4	- 0.0	4.0	
Engineering and technology	56.0	22.0	47.0	17.0	1.0	1.0	8.0	4.0	
Social sciences	9.9	6.7	7.5	5.5	2.4	1.2	-	-	
Humanities	22.1	10.2	22.1	10.2	-	-	-	-	
Region Šumadije i Zapadne Srbije	57.5	25.8	50.0	23.0	7.0	2.8	0.5	-	
Natural sciences Engineering and technology	12.4 14.5	8.2 1.9	8.2 11.2	6.8 0.5	4.2 2.8	1.4 1.4	0.5	-	
Social sciences	8.5	5.5	8.5	5.5	-	-	-	_	
Humanities	22.1	10.2	22.1	10.2	-	-	-	-	
Business sector	13.5	0.9	11.2	0.5	1.8	0.4	0.5	-	
Engineering and technology Social sciences	12.5 1.0	0.9	10.2 1.0	0.5	1.8	0.4	0.5	-	
Tertiary education	44.0	24.9	38.8	22.5	5.2	2.4	_	_	
Natural sciences	12.4	8.2	8.2	6.8	4.2	1.4	_	-	
Engineering and technology	2.0	1.0	1.0		1.0	1.0	-	-	
Social sciences Humanities	7.5 22.1	5.5 10.2	7.5 22.1	5.5 10.2	-	-	-	-	
Region Južne i Istočne Srbije	61.1	22.2	49.0 49.0	17.0 17.0	3.6 1.2	1.2	8.5 8.5	4.0	
Engineering and technology Social sciences	58.7 2.4	21.0 1.2	49.0	17.0	2.4	1.2	8.5	4.0	
Business sector	3.7	-	2.0	_	1.2	-	0.5		
Engineering and technology	3.7	-	2.0	-	1.2	-	0.5	-	
Government sector	1.0	-	1.0	-	-	-	-	-	
Engineering and technology	1.0	-	1.0	-	-	-	-	-	
Tertiary education	56.4	22.2	46.0	17.0	2.4	1.2	8.0	4.0	
Engineering and technology	54.0 2.4	21.0	46.0	17.0	2.4	1.2	8.0	4.0	
Social sciences	2.4	1.2	-	-	2.4	1.2	-	•	
legion Kosovo i Metohija									



7.1. Research works (projects and studies), by sectors and territories, 2015

	Research works (projects and studies), 2015							
		Number	of works		Valu	e of scientific	works, thous.	RSD
	Total	Basic	Applied	Development	Total	Basic	Applied	Development
REPUBLIC OF SERBIA	11786	5724	4348	1714	34990573	12708745	13030826	9251002
Business sector	1852	250	1102	500	11103915	209299	6019728	4874888
Government sector	2558	1535	688	335	9569130	5285696	2825205	1458229
Tertiary education	7347	3936	2532	879	14260714	7192451	4150378	2917885
Non-profit sector	29	3	26	-	56814	21299	35515	-
SRBIJA – SEVER	8585	3887	3256	1442	32326428	11900225	12248185	8178018
Business sector	1164	248	475	441	10230731	201784	5727623	4301324
Government sector	2502	1525	682	295	9460370	5283508	2785387	1391475
Tertiary education	4890	2111	2073	706	12578513	6393634	3699660	2485219
Non-profit sector	29	3	26	-	56814	21299	35515	-
Beogradski region	6193	3295	1836	1062	24112725	10110814	9229990	4771921
Business sector	972	248	409	315	7184036	201784	5539577	1442675
Government sector	2348	1519	551	278	8844006	5263549	2200820	1379637
Tertiary education	2863	1525	869	469	8029180	4624182	1455389	1949609
Non-profit sector	10	3	7	-	55503	21299	34204	-
Region Vojvodine	2392	592	1420	380	8213703	1789411	3018195	3406097
Business sector	192	-	66	126	3046695	-	188046	2858649
Government sector	154	6	131	17	616364	19959	584567	11838
Tertiary education	2027	586	1204	237	4549333	1769452	2244271	535610
Non-profit sector	19	-	19	-	1311	-	1311	-
SRBIJA – JUG	3201	1837	1092	272	2664145	808520	782641	1072984
Business sector	688	2	627	59	873184	7515	292105	573564
Government sector	56	10	6	40	108760	2188	39818	66754
Tertiary education	2457	1825	459	173	1682201	798817	450718	432666
Region Šumadije i Zapadne Srbije	1196	339	751	106	1269158	477985	408658	382515
Business sector	643	2	602	39	381989	7515	82331	292143
Government sector	6	-	6	-	39818	-	39818	-
Tertiary education	547	337	143	67	847351	470470	286509	90372
Region Južne i Istočne Srbije	2005	1498	341	166	1394987	330535	373983	690469
Business sector	45	-	25	20	491195	-	209774	281421
Government sector	50	10	-	40	68942	2188	-	66754
Tertiary education	1910	1488	316	106	834850	328347	164209	342294
Region Kosovo i Metohija								



			Resear	ch works (proje	cts and studie	es) 2015		
		Number		on works (proje		e of scientific	works, thous	. RSD
	Total	Basic	Applied	Development	Total	Basic	Applied	Development
REPUBLIC OF SERBIA	11786	5724	4348	1714	34990573	12708745	13030826	9251002
Natural sciences Engineering and technology	1909 4076	1130 312	542 2650	237 1114	11219108 11909134	5691553 789362	2791938 5885181	2735617 5234591
Medical and health sciences	557	346	173		1950853	783617	1044226	123010
Agricultural sciences	741	93	432	216	2916435	326662	1766943	822830
Social sciences	3680	3095	479	106	5069936	3443820	1293677	332439
Humanities	823	748	72	3	1925107	1673731	248861	2515
Business sector	1852	250	1102		11103915	209299	6019728	
Natural sciences	403	106	157	140	3336525	83585	1177483	
Engineering and technology Medical and health sciences	1155 64	17	834 56	304 8	6440283 944574	76577 -	3772322 895064	2591384 49510
Agricultural sciences	41	_	17	24	290747	-	141867	148880
Social sciences	189	127	38	24	91786	49137	32992	
Government sector	2558	1535	688	335	9569130	5285696	2825205	1458229
Natural sciences	601	452	115		4437114	3689203	697709	
Engineering and technology	598	32	292		1988905	150566	732462	
Medical and health sciences	152	113	37	2	244333	200153	38177	6003
Agricultural sciences	237	52	172		1563142	110554	1205497	247091
Social sciences	523	498	16		504241	413020	44680	46541
Humanities	447	388	56		831395	722200	106680	
Tertiary education	7347	3936	2532		14260714	7192451	4150378	
Natural sciences	900	572	265	63	3444611	1918765	915888	609958
Engineering and technology Medical and health sciences	2320 339	262 233	1522 78	536 28	3453410 760466	561778 583464	1354302 109505	1537330 67497
Agricultural sciences	449	41	229	179	1062093	216108	419126	426859
Social sciences	2963	2468	422		4446422	2960805	1209376	276241
Humanities	376	360	16	-	1093712	951531	142181	-
Non-profit sector	29	3	26	_	56814	21299	35515	-
Natural sciences	5	-	5		858		858	-
Engineering and technology	3	1	2		26536	441	26095	-
Medical and health sciences	2	-	2		1480	-	1480	-
Agricultural sciences	14	-	14		453	-	453	-
Social sciences	5	2	3	-	27487	20858	6629	-
SRBIJA – SEVER	8585	3887	3256	1442	32326428	11900225	12248185	8178018
Natural sciences	1451	794	430	227	10653421	5310712	2634420	2708289
Engineering and technology	2791	207	1723	861	10489179	694483	5530747	4263949
Medical and health sciences	508	297	173	38	1805896	638660	1044226	123010
Agricultural sciences	705	90	400	215	2724524	322645	1580050	821829
Social sciences	2345	1788 711	459 71	98 3	4778267	3309898	1209943	
Humanities	785				1875141	1623827	248799	
Business sector	1164	248	475	441	10230731	201784	5727623	
Natural sciences Engineering and technology	397 492	106 16	155 225	136 251	3313595 5716514	83585 69391	1166009 3614206	2064001 2032917
Medical and health sciences	64	-	56		944574	-	895064	
Agricultural sciences	34	_	11	23	167957	-	20078	
Social sciences	177	126	28		88091	48808	32266	
Government sector	2502	1525	682	295	9460370	5283508	2785387	1391475
Natural sciences	601	452	115		4437114	3689203	697709	
Engineering and technology	548	22	292		1919963	148378	732462	
Medical and health sciences	152	113	37		244333	200153	38177	
Agricultural sciences	231	52	166		1523324	110554	1165679	247091
Social sciences Humanities	523 447	498 388	16 56		504241 831395	413020 722200	44680 106680	46541 2515
Tertiary education	4890 448	2111 236	2073 155		12578513 2901854	6393634 1537924	3699660 769844	2485219 594086
Natural sciences Engineering and technology	1748	236 168	1204	376	2826166	476273	1157984	1191909
Medical and health sciences	290	184	78		615509	438507	109505	67497
Agricultural sciences	426	38	209		1032790	212091	393840	426859
Social sciences	1640	1162	412		4158448	2827212	1126368	
Humanities	338	323	15	-	1043746	901627	142119	-
Non-profit sector	29	3	26	-	56814	21299	35515	-
Natural sciences	5	-	5		858	-	858	
Engineering and technology	3	1	2		26536	441	26095	
Medical and health sciences	2	-	2		1480	-	1480	
Agricultural sciences	14	2	14 3		453 27487	20050	453 6629	
Social sciences	1 5	2	3	-	27487	20858	0029	-



7.2. Research works (projects and studies), by sectors and fields of science, 2015 (continuied)

Beogradski region							`	<u> </u>	
Profest Brasic Applied Development Total September Development Total Brasic Applied Development De					ch works (proje	cts and studi	es), 2015		
Beogradski region			Number	of works		Valu	e of scientific	works, thous	. RSD
Natural sciences		Total	Basic	Applied	Development	Total	Basic	Applied	Developmen
Engineering and technology Medical and heath sciences 366 232 1332 1362 1362 166661 570175 100493 111 Agricultural sciences 525 88 2261 175 2188573 322225 1201804 361 Agricultural sciences 170 710 67 3 1745983 1593827 148261 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 1005061 10	Beogradski region	6193	3295	1836	1062	24112725	10110814	9229990	4771921
Medical and health aciences 336 232 132 332 1686671 570175 1000493 111 101044 668 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 580 58	Natural sciences	1135	749	304	82	7597443	4855404	1865564	876475
Agricultural sciences 525 88 281 175 2188573 32225 1201946 50 Humanilles 780 710 67 3 1745583 1593827 148241 120 Humanilles 780 710 67 3 1745583 1593827 148241 120 Humanilles 780 710 67 3 1745583 1593827 148241 120 Humanilles 780 710 67 3 1745583 1593827 148241 120 120 16 1585590 35385 1073027 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 420 4	Engineering and technology	1636	118	819	699	7933463	414599	4514243	3004621
Social sciences	Medical and health sciences	396	232	132	32	1686671	570175	1000493	116003
Business sector 972	Agricultural sciences	525	89	261	175	2188573	322225	1201804	664544
Subsines sector 972	Social sciences	1721	1397	253	71	2960992	2354584	498645	107763
Natural sciences	Humanities	780	710	67	3	1745583	1593827	149241	2515
Natural sciences	Rusiness sector	972	249	400	215	7194036	201794	EE30E77	1442675
Engineering and technology Medical and health sciences 64 - 56 8 944674 - 20 885064 44 Agricultural sciences 73 - 11 22 111205 - 20078 9 Social sciences 716 126 27 23 74428 48808 18803 75 21 11205 - 20078 9 Social sciences 76 176 126 27 23 74428 48808 18803 76 24 217 16 127 23 74428 48808 18803 76 24 217 16 127 17 16 128 21 11205 76 27 23 74428 48808 18803 77 16 204 217 1601208 128419 44504 122 111205 76 27 28 24 217 1601208 128419 44504 122 111205 76 27 28 24 217 1601208 128419 44504 122 11205 76 27 28 28 24 22 20 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 22 20 24 20 24 20 20 20 20 20 20 20 20 20 20 20 20 20									428978
Medical and health sciences									
Agricultural sciences 33 - 11 22 1111205 - 20078 9 20078 9 50cial sciences 176 126 27 23 7428 4889 18603 5 50cial sciences 176 126 27 23 7428 4889 18603 5 50cial sciences 611 452 115 34 4427114 388903 687709 5 6 6 6 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1									
Social sciences									49510
Sovernment sector 2348 1519 551 278 884406 5283549 200020 137	•								91127
Natural sciences	Social sciences	1/6	126	27	23	74428	48808	18603	7017
Engineering and technology	Government sector	2348	1519	551	278	8844006	5263549	2200820	1379637
Medical and health sciences	Natural sciences	601	452	115	34	4437114	3689203	697709	50202
Agricultural sciences 188 52 123 13 1225715 110554 886070 24	Engineering and technology	437	16	204	217	1601208	128419	445504	1027285
Agricultural sciences	Medical and health sciences	152	113	37	2	244333	200153	38177	6003
Social sciences		188	52	123	13	1225715	110554	868070	247091
Humanities	•								
Pertiary education 2863 1525 869 469 8029180 4624182 1455389 1948 Natural sciences 310 191 87 32 1574739 1082616 94828 39 Engineering and technology 721 85 400 223 1837480 216348 508899 111 116184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184 126184									
Natural sciences									
Engineering and technology	-								
Medical and health sciences 178 119 37 22 496;284 370022 65772 63 63 63 63 63 63 63 6									
Agricultural sciences	0 0								
Social sciences	Medical and health sciences								
Humanities	Agricultural sciences	304				851653			
Non-profit sector	Social sciences			207	39	2354836	1871898	428733	54205
Engineering and technology 3	Humanities	333	322	11	-	914188	871627	42561	-
Engineering and technology 3	Non-profit sector	10	3	7	_	55503	21299	34204	_
Medical and health sciences 2	•								
Social sciences 5 2 3 - 27487 20858 6629 Region Vojvodine 2392 592 1420 380 8213703 1789411 3018195 340 Natural sciences 316 45 126 145 3055978 455308 768856 183 Engineering and technology 1155 89 904 162 2555716 279884 1016504 125 Medical and health sciences 112 65 41 6 119225 68485 43733 26 Agricultural sciences 180 1 139 40 535961 420 378246 15 Social sciences 624 391 206 27 81727 955314 71128 15 Humanities 5 1 4 - 129558 30000 99558 Business sector 192 - 66 126 126 3046695 - 188046 285 <	0 0	I					-		
Region Vojvodine 2392 592 1420 380 8213703 1789411 3018195 340 Natural sciences 316 45 126 145 3055978 455308 768856 183 Engineering and technology 1155 89 904 162 2555716 279884 1016504 125 Medical and health sciences 112 65 41 6 119225 68485 43733 378246 15 Social sciences 180 1 139 40 535951 420 378246 15 Social sciences 624 391 206 27 1817275 955314 711298 15 Humanities 5 1 4 - 129558 30000 99558 15 Business sector 192 - 66 126 3046695 - 188046 285 Natural sciences 173 - 53 120 1728005 - 92882		I					20858		
Natural sciences 316	Social sciences		2	3	_	21401	20000	0023	_
Natural sciences 316	Pagion Vaivadina	2202	502	1420	390	9242702	1790/11	2019105	3406097
Engineering and technology 1155 89 904 162 2555716 279884 1016504 1256 Medical and health sciences 112 65 41 6 119225 68485 43733 1266 1392 1256 1268 1208 1256 1268 1208 1256 1268 1208 1256 1268 1208 1256 1268 1208 1256 1268 1208 1256 1268 1208 1256 1268 1208 1256 1268 1208 1256 1268 1208 1256 1268 1268 1208 1256 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268 1268									
Medical and health sciences 112 65 41 6 119225 68485 43733 3 Agricultural sciences 180 1 139 40 535951 420 378246 15 Social sciences 624 391 206 27 1817275 955314 711298 15 Humanities 5 1 4 - 129558 30000 99558 Business sector 192 - 66 126 3046695 - 188046 285 Natural sciences 173 - 53 120 1728005 - 92982 163 Engineering and technology 17 - 12 5 1248275 - 81401 111 Agricultural sciences 1 - - 1 56752 - - 5 5 Government sector 154 6 131 17 616364 19959 584567 1 Engineerin									
Agricultural sciences 180 1 139 40 535951 420 378246 15 Social sciences 624 391 206 27 1817275 955314 711288 15 Humanities 5 1 4 - 129558 30000 99558 Business sector 192 - 66 126 3046695 - 188046 285 Natural sciences 173 - 53 120 1728005 - 92982 163 Engineering and technology 17 - 12 5 1248275 - 81401 116 Agricultural sciences 1 - - 1 56752 - - 16 Social sciences 1 - - 1 15663 - 13663 Government sector 154 6 131 17 616364 19959 584567 1 Engineering and technology 111 6 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Social sciences 624 391 206 27 1817275 955314 711298 150									
Humanities	9								
Business sector 192					27				
Natural sciences	Humanities	5	1	4	-	129558	30000	99558	-
Engineering and technology	Business sector	192	-	66	126	3046695	-	188046	2858649
Engineering and technology	Natural sciences	173	-	53	120	1728005	-	92982	1635023
Agricultural sciences 1 - - 1 56752 - - 56752 Social sciences 1 - 1 - 13663 - 13663 Government sector 154 6 131 17 616364 19959 584567 1* Engineering and technology 111 6 88 17 318755 19959 286958 1* Tertiary education 2027 586 1204 237 4549333 1769452 2244271 53 Natural sciences 138 45 68 25 1327115 455308 675016 19 Engineering and technology 1027 83 804 140 988686 259925 648145 80 Medical and health sciences 112 65 41 6 11925 68485 43733 10 Agricultural sciences 623 391 205 27 1803612 955314 697635 15			-				_		
Social sciences 1 - 1 - 13663 - 13663 Government sector 154 6 131 17 616364 19959 584567 11 Engineering and technology 111 6 88 17 318755 19959 286958 1 Agricultural sciences 43 - 43 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 297609 - 2944071 53 Tertiary education			_				_	_	56752
Government sector 154 6 131 17 616364 19959 584567 1 Engineering and technology 111 6 88 17 318755 19959 286958 1 Agricultural sciences 43 - 43 - 297609 - 297609 Tertiary education 2027 586 1204 237 4549333 1769452 2244271 53 Natural sciences 138 45 68 25 1327115 455308 675016 19 Engineering and technology 1027 83 804 140 988686 259925 648145 80 Engineering and technology 1027 83 804 140 988686 259925 648145 80 Engineering and technology 1027 83 804 140 988686 259925 648145 80 Agricultural sciences 122 1 82 39 181137 420 80184	•		_	1			_	13663	-
Engineering and technology 111			_						
Agricultural sciences 43 - 43 - 297609 - 297609 Tertiary education 2027 586 1204 237 4549333 1769452 2244271 533 Natural sciences 138 45 68 25 1327115 455308 675016 199 Engineering and technology 1027 83 804 140 988686 259925 648145 80 Medical and health sciences 112 65 41 6 119225 68485 43733 70 Agricultural sciences 122 1 82 39 181137 420 80184 100 Social sciences 623 391 205 27 1803612 955314 697635 150 Humanities 5 1 4 - 129558 30000 99558 Non-profit sector 19 - 1311 - 1311 Natural sciences 5 - 5 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Tertiary education 2027 586 1204 237 4549333 1769452 2244271 53 Natural sciences 138 45 68 25 1327115 455308 675016 19 Engineering and technology 1027 83 804 140 988686 259925 648145 8 Medical and health sciences 112 65 41 6 119225 68485 43733 7 Agricultural sciences 122 1 82 39 181137 420 80184 100 Social sciences 623 391 205 27 1803612 955314 697635 150 Humanities 5 1 4 - 129558 30000 99558 Non-profit sector 19 - 19 - 1311 - 1311 Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 458			6		17		19959		11838
Natural sciences 138 45 68 25 1327115 455308 675016 199 Engineering and technology 1027 83 804 140 988686 259925 648145 80 Medical and health sciences 112 65 41 6 119225 68485 43733 13 Agricultural sciences 122 1 82 39 181137 420 80184 100 Social sciences 623 391 205 27 1803612 955314 697635 150 Humanities 5 1 4 - 129558 30000 99558 Non-profit sector 19 - 19 - 1311 - 1311 Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 107 Natural sciences	Agricultural sciences	43	-	43	-	297609	-	297609	-
Natural sciences 138 45 68 25 1327115 455308 675016 199 Engineering and technology 1027 83 804 140 988686 259925 648145 80 Medical and health sciences 112 65 41 6 119225 68485 43733 13 Agricultural sciences 122 1 82 39 181137 420 80184 100 Social sciences 623 391 205 27 1803612 955314 697635 150 Humanities 5 1 4 - 129558 30000 99558 Non-profit sector 19 - 19 - 1311 - 1311 Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 107 Natural sciences	Tertiary education	2027	586	1204	237	4549333	1769452	2244271	535610
Engineering and technology 1027 83 804 140 988686 259925 648145 88 88 86 88 86 88 86 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88									
Medical and health sciences 112 65 41 6 119225 68485 43733 1000 Agricultural sciences 122 1 82 39 181137 420 80184 100 Social sciences 623 391 205 27 1803612 955314 697635 150 Humanities 5 1 4 - 129558 30000 99558 Non-profit sector 19 - 19 - 1311 - 1311 Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 107 Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 970 Medical and health sc									
Agricultural sciences 122 1 82 39 181137 420 80184 100 Social sciences 623 391 205 27 1803612 955314 697635 150 Humanities 5 1 4 - 129558 30000 99558 Non-profit sector 19 - 19 - 1311 - 1311 Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 1073 Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 976 Medical and health sciences 49 49 - - 144957 - - Agricultural sciences 36	0 0								
Social sciences 623 391 205 27 1803612 955314 697635 156 Humanities 5 1 4 - 129558 30000 99558 Non-profit sector 19 - 19 - 1311 - 1311 Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 1073 Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 976 Medical and health sciences 49 49 - - 144957 - - Agricultural sciences 36 3 32 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Humanities 5 1 4 - 129558 30000 99558 Non-profit sector 19 - 19 - 1311 - 1311 Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 1073 Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 970 Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669	<u> </u>								
Non-profit sector 19 - 19 - 1311 - 1311 Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 1073 Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 970 Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74									
Natural sciences 5 - 5 - 858 - 858 Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 107 Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 970 Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74	numanilies	3	'	4	-	129000	30000	99000	-
Agricultural sciences 14 - 14 - 453 - 453 SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 1073 Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 970 Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74	Non-profit sector		-	19	-		-		-
SRBIJA – JUG 3201 1837 1092 272 2664145 808520 782641 1073 Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 976 Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74	Natural sciences		-	5	-		-	858	-
Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 970 Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74	Agricultural sciences	14	-	14	-	453	-	453	-
Natural sciences 458 336 112 10 565687 380841 157518 22 Engineering and technology 1285 105 927 253 1419955 94879 354434 970 Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74									
Engineering and technology 1285 105 927 253 1419955 94879 354434 970 Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74									1072984
Medical and health sciences 49 49 - - 144957 144957 - Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74	Natural sciences								
Agricultural sciences 36 3 32 1 191911 4017 186893 Social sciences 1335 1307 20 8 291669 133922 83734 74	Engineering and technology	1285	105	927	253	1419955	94879	354434	970642
Social sciences 1335 1307 20 8 291669 133922 83734 74	Medical and health sciences	49	49	-	-	144957	144957	-	-
Social sciences 1335 1307 20 8 291669 133922 83734 74	Agricultural sciences	36	3	32	1	191911	4017	186893	1001
	<u> </u>	1335		20	8				74013
Humanities 38 37 1 - 49966 49904 62					-				



			Resear	ch works (proje	cts and studie	es), 2015		
		Number	of works		Value	e of scientific	works, thous	. RSD
	Total	Basic	Applied	Development	Total	Basic	Applied	Developmen
Business sector	688	2	627	59	873184	7515	292105	573564
Natural sciences	6	-	2	4	22930	-	11474	11456
Engineering and technology	663	1	609	53	723769	7186	158116	558467
Agricultural sciences	7	-	6	1	122790	-	121789	1001
Social sciences	12	1	10	1	3695	329	726	2640
Government sector	56	10	6	40	108760	2188	39818	66754
Engineering and technology	50	10	-	40	68942	2188	-	66754
Agricultural sciences	6	-	6	-	39818	-	39818	-
Tertiary education	2457	1825	459	173	1682201	798817	450718	432666
Natural sciences	452	336	110	6	542757	380841	146044	15872
Engineering and technology	572	94	318	160	627244	85505	196318	345421
Medical and health sciences	49	49	-	-	144957	144957	-	-
Agricultural sciences	23	3	20	-	29303	4017	25286	-
Social sciences	1323	1306	10	7	287974	133593	83008	71373
Humanities	38	37	1	-	49966	49904	62	-
Region Šumadije i Zapadne Srbije	1196	339	751	106	1269158	477985	408658	382515
Natural sciences	156	103	44	9	453554	294479	132871	26204
Engineering and technology	805	51	660	94	518460	39061	124789	354610
Medical and health sciences	43	43	-	-	47952	47952	-	-
Agricultural sciences	32	3	28	1	72344	4017	67326	1001
Social sciences	158	137	19	2	159036	74664	83672	700
Humanities	2	2	-	-	17812	17812	-	-
Business sector	643	2	602	39	381989	7515	82331	292143
Natural sciences	6	-	2	4	22930	-	11474	11456
Engineering and technology	623	1	588	34	354781	7186	67909	279686
Agricultural sciences	3	-	2	1	3223	-	2222	1001
Social sciences	11	1	10	-	1055	329	726	-
Government sector	6	_	6	_	39818	_	39818	_
Agricultural sciences	6	_	6	_	39818	_	39818	_
Tertiary education	547	337	143	67	847351	470470	286509	90372
Natural sciences	150	103	42	5	430624	294479	121397	14748
Engineering and technology	182	50	72	60	163679	31875	56880	74924
Medical and health sciences	43	43	-	-	47952	47952	30000	74324
Agricultural sciences	23	3	20	-	29303	4017	25286	_
Social sciences	147	136	9	2	157981	74335	82946	700
Humanities	2	2	-	-	17812	17812	-	-
Region Južne i Istočne Srbije	2005	1498	341	166	1394987	330535	373983	690469
Natural sciences	302	233	68	1	112133	86362	24647	1124
Engineering and technology	480	54	267	159	901495	55818	229645	616032
Medical sciences	6	6	-	-	97005	97005	-	-
Agricultural sciences	4	-	4	-	119567	-	119567	-
Social sciences	1177	1170	1	6	132633	59258	62	73313
Humanities	36	35	1	-	32154	32092	62	-
Business sector	45	_	25	20	491195	_	209774	281421
Engineering and technology	40	_	21	19	368988		90207	278781
Agricultural sciences	4	_	4	-	119567	_	119567	
Social sciences	1	-	-	1	2640	-	-	2640
Government sector	50	10	_	40	68942	2188	_	66754
Engineering and technology	50	10	-	40	68942	2188	-	66754
Tertiary education	1910	1488	316	106	834850	328347	164209	342294
Natural sciences	302	233	68	1	112133	86362	24647	1124
Engineering and technology	390	44	246	100	463565	53630	139438	270497
Medical and health sciences	6	6	-	-	97005	97005	-	-
Social sciences	1176	1170	1	5	129993	59258	62	70673
Humanities	36	35	1	-	32154	32092	62	-
Region Kosovo i Metohija								

8.1. R&D works, by ordering parties, fields of science

			0.1. K	SD WORKS, Ordering		ing partie	s, neius	oi science
		Enter	prises			Mini	stries	
	Total	Basic	Applied	Development	Total	Basic	Applied	Development
REPUBLIC OF SERBIA	1227	84	844	299	7128	4081	2118	929
Natural sciences	81	2	71	8	1531	1023	341	167
Engineering and technology	872	24	600	248	1909	215	1110	584
Medical and health sciences	104	56	36	12	296	235	47	14
Agricultural sciences	112	2	80	30	417	79	245	93
Social sciences	58	-	57	1	2469	2092	309	68
Humanities	-	-	-	-	506	437	66	3
Business sector	180	-	105	75	616	248	129	239
Natural sciences	76	-	71	5	238	106	29	103
Engineering and technology	91	-	21	70	191	16	69	106
Medical and health sciences	2	-	2	-	-	-	-	-
Agricultural sciences	-	-	-	-	11	-	4	7
Social sciences	11		11	-	176	126	27	23
Government sector	43	1	42	-	2107	1302	512	293
Natural sciences		-	-	-	522	393	99	30
Engineering and technology	40		40	-	465	25	195	245
Medical and health sciences	1	1		-	116	110	5	1
Agricultural sciences	2	-	2	-	201	50	141	10
Social sciences	-	-	-	-	425	405	16	4
Humanities	-	-	-	-	378	319	56	3
Tertiary education	1004	83	697	224	4404	2530	1477	397
Natural sciences	5	2	-	3	771	524	213	34
Engineering and technology	741	24	539	178	1252	173	846	233
Medical and health sciences	101	55	34	12	180	125	42	13
Agricultural sciences	110	2	78	30	205	29	100	76
Social sciences	47	-	46	1	1868	1561	266	41
Humanities	-	-	-	-	128	118	10	-
Non-profit sector	-	-	-	-	1	1	-	-
Natural sciences	-	-	-	-	-	-	-	-
Engineering and technology	-	-	-	-	1	1	-	-
Medical and health sciences	-	-	-	-	-	-	-	-
Agricultural sciences	-	-	-	-	-	-	-	-
Social sciences	-	-	-	-	-	-	-	-
SRBIJA – SEVER	994	84	641	269	5360	2678	1900	782
Natural sciences	81	2	71	8	1084	687	236	161
Engineering and technology	649	24	407	218	1626	152	1030	444
Medical and health sciences	104	56	36	12	285	224	47	14
Agricultural sciences	112	2	80	30	384	76	215	93
Social sciences	48	-	47	1	1501	1128	306	67
Humanities	-	-	-	-	480	411	66	3
Business sector	159	_	91	68	603	247	120	236
Natural sciences	76	_	71	5	238	106	29	103
Engineering and technology	80	_	17	63	182	15	64	103
Medical and health sciences	2	_	2	-	-	-	-	-
Agricultural sciences		_	_	_	7	_	_	7
Social sciences	1	_	1	_	176	126	27	23
Government sector	43	1	42	_	2051	1292	506	253
Natural sciences	45	-	- 42	-	522	393	99	30
Engineering and technology	40	-	40	-	415	15	195	205
Medical and health sciences	1	1	-	_	116	110	5	1
Agricultural sciences	2		2	_	195	50	135	10
Social sciences		_	_	_	425	405	16	4
Humanities	_	_	_	_	378	319	56	3
Tertiary education	792	83	508	201	2705	1138	1274	293
Natural sciences	5	2	250	3	324	188	108	28
Engineering and technology	529	24 55	350	155	1028	121	771	136
Medical and health sciences	101	55 2	34 78	12 30	169 182	114 26	42 80	13 76
Agricultural sciences	110 47	2	78 46	30 1	182 900	26 597	80 263	76 40
Social sciences Humanities	47	-	46	1 -	102	92	263 10	40
	_	-	-				10	-
Non-profit sector	-	-	-	-	1	1	-	-
Natural sciences	-	-	-	-	-	-	-	-
Engineering and technology	-	-	-	-	1	1	-	-
Medical and health sciences	-	-	-	-	-	-	-	-
Agricultural sciences	-	-	-	-	-	-	-	-
Social sciences	-	-	-	-	-	-	-	-

and type of research, 2015

			0.009	parties				
	Oth	ner			From a	abroad		
otal	Basic	Applied	Development	Total	Basic	Applied	Development	
2291	1017	984	290	1140	542	402	196	REPUBLIC OF SERBIA
154	15	90	49	143	90	40	13	Natural sciences
962	31	783	148	333	42	157	134	Engineering and technology
43	39	4	-	114	16	86	12	Medical and health sciences
110	7	38	65	102	5	69	28	Agricultural sciences
848	755	65	28	305	248	48	9	Social sciences
174	170	4	-	143	141	2	-	Humanities
895	2	742	151	161	-	126	35	Business sector
76	-	52	24	13	-	5	8	Natural sciences
787	1	677	109	86	-	67	19	Engineering and technology
-	-	-	-	62	-	54	8	Medical and health sciences
30	-	13	17	-	-	-	-	Agricultural sciences
2	1	-	1	-	-	-	-	Social sciences
157	77	54	26	251	155	80	16	Government sector
7	_	4	3	72	59	12	1	Natural sciences
69	5	48	16	24	2	9	13	Engineering and technology
-	-	- 2	-	35	2	32	1	Medical and health sciences
5 57	53	2	3 4	29 41	2 40	27	- 1	Agricultural sciences
57 19	53 19	-	4	41 50	40 50	-	1 -	Social sciences Humanities
1211	936	162	113	728	387	196	145	Tertiary education
66	15	29	22	58	31	23	4	Natural sciences
104	25 39	56	23	223	40	81	102 3	Engineering and technology
41 61	39 7	2 9	- 45	17 73	14 3	42	28	Medical and health sciences Agricultural sciences
784	699	62	23	264	208	48	8	Social sciences
155	151	4	-	93	91	2	-	Humanities
				00	0.	_		
28	2	26 5	-	-	-	-	-	Non-profit sector
5 2	-	2	-	-	-	-	-	Natural sciences Engineering and technology
2	-	2	-	-	-	_	-	Medical and health sciences
14	_	14	_	_	_	_	_	Agricultural sciences
5	2	3	-	-	-	-	-	Social sciences
1320	717	370	233	911	408	345	158	SRBIJA – SEVER
148	15	88	45	138	90	35	13	Natural sciences
294	16	176	102	222	15	110	97	Engineering and technology
5	1	4	-	114	16	86	12	Medical and health sciences
107	7	36	64	102	5	69	28	Agricultural sciences
604	519	63	22	192	141	43	8	Social sciences
162	159	3	-	143	141	2	-	Humanities
257	1	147	109	145	-	117	28	Business sector
70	-	50	20	13	_	5	8	Natural sciences
160	1	86	73	70	_	58	12	Engineering and technology
-	-	-	-	62	-	54	8	Medical and health sciences
27	-	11	16	-	-	-	-	Agricultural sciences
-	-	-	-	-	-	-	-	Social sciences
157	77	54	26	251	155	80	16	Government sector
7	-	4	3	72	59	12	1	Natural sciences
69	5	48	16	24	2	9	13	Engineering and technology
-	-	-	-	35	2	32	1	Medical and health sciences
5	-	2	3	29	2	27	-	Agricultural sciences
57	53	-	4	41	40	-	1	Social sciences
19	19	-	-	50	50	-	-	Humanities
878	637	143	98	515	253	148	114	Tertiary education
66	15	29	22	53	31	18	4	Natural sciences
63	10	40	13	128	13	43	72	Engineering and technology
3	1	2	-	17	14	-	3	Medical and health sciences
61	7	9	45	73	3	42	28	Agricultural sciences
542	464	60	18	151	101	43	7	Social sciences
143	140	3	-	93	91	2	-	Humanities
28	2	26	-	-	-	-	-	Non-profit sector
5	-	5	-	-	-	-	-	Natural sciences
2	-	2	-	-	-	-	-	Engineering and technology
2	-	2	-	-	-	-	-	Medical and health sciences
14	-	14	-	-	-	-	-	Agricultural sciences
	2	3	=	=	=	-	-	Social sciences

8.1. R&D works, by ordering parties, fields of science

			8.1. K	&D works, Ordering		ng partie	s, neias	or science
		Enter	prises		<u> </u>	Mini	stries	
	Total	Basic	Applied	Development	Total	Basic	Applied	Development
Beogradski region	836	60	534	242	3720	2263	899	558
Natural sciences	81	2	71	8	880	642	198	40
Engineering and technology	518	-	327	191	775	100	272	403
Medical and health sciences	104	56	36	12	174	160	6	8
Agricultural sciences	90	2	58	30	303	75	174	54
Social sciences	43	-	42	1	1110	876	184	50
Humanities	-	-	-	-	478	410	65	3
Business sector	156	-	90	66	503	247	120	136
Natural sciences	76	-	71	5	138	106	29	3
Engineering and technology	78	-	17	61	182	15	64	103
Medical and health sciences	2	-	2	-	-	-	-	-
Agricultural sciences	-	-	-	-	7	-	-	7
Social sciences	-	-	-	-	176	126	27	23
Government sector	32	1	31	-	1959	1289	417	253
Natural sciences	-	-	-	-	522	393	99	30
Engineering and technology	31	-	31	-	341	12	124	205
Medical and health sciences	1	1	-	-	116	110	5	1
Agricultural sciences	-	-	-	-	177	50	117	10
Social sciences	-	-	-	-	425	405	16	4
Humanities	-	-	-	-	378	319	56	3
Tertiary education	648	59	413	176	1257	726	362	169
Natural sciences	5	2	-	3	220	143	70	7
Engineering and technology	409	_	279	130	251	72	84	95
Medical and health sciences	101	55	34	12	58	50	1	7
Agricultural sciences	90	2	58	30	119	25	57	37
Social sciences	43	-	42	1	509	345	141	23
Humanities	_	-	-	-	100	91	9	-
Non-profit sector		_			1	1		
Engineering and technology				-	1	1		_
Medical and health sciences	_	_	_	_			_	_
Social sciences	_	_	-	_	_	_	-	_
Region Vojvodine	158	24	107	27	1640	415	1001	224
Natural sciences	-	-	-	-	204	45	38	121
Engineering and technology	131	24	80	27	851	52	758	41
Medical and health sciences	-	-	-	-	111	64	41	6
Agricultural sciences	22	-	22	-	81	1	41	39
Social sciences	5	-	5	-	391	252	122	17
Humanities	-	-	-	-	2	1	1	-
Business sector	3	_	1	2	100	-	-	100
Natural sciences	_	-	-	-	100	-	-	100
Engineering and technology	2	-	-	2	-	-	-	-
Agricultural sciences	-	-	-	-	-	-	-	-
Social sciences	1	-	1	-	-	-	-	-
Government sector	11	_	11	_	92	3	89	_
Engineering and technology	9	_	9	_	74	3	71	_
Agricultural sciences	2	_	2	_	18	-	18	_
Tertiary education	144	24	95	25	1448	412	912	124
Natural sciences	120	-	- 74	-	104	45	38	21
Engineering and technology	120	24	71	25	777 111	49 64	687	41
Medical and health sciences	- 20	-	- 20	-	111	64	41	6
Agricultural sciences	20	-	20 4	-	63 301	1 252	23 122	39 17
Social sciences Humanities	4	-	4	-	391 2	252 1	122	17
	_	-	-	-	2	1	1	-
Non-profit sector	-	-	-	-	-	-	-	-
Natural sciences	-	-	-	-	-	-	-	-
Agricultural sciences	-	-	-	-	-	-	-	-



and type o	T researc	n, 2015 (continued)					
			Ordering	parties				
	Oth	ner			From a	abroad		
Total	Basic	Applied	Development	Total	Basic	Applied	Development	
1003	611	204	188	634	361	199	74	Beogradski region
53	15	16	22	121	90	19	12	Natural sciences
233	5	141	87	110	13	79	18	Engineering and technology
4	0	4	0	114	16	86	12	Medical and health sciences
90	7	20	63	42	5	9	28	Agricultural sciences
462	425	21	16	106	96	6	4	Social sciences
161	159	2	0	141	141	0	0	Humanities
172	1	85	86	141	0	114	27	Business sector
0	0	0	0	10	0	2	8	Natural sciences
146	1	74	71	69	0	58	11	Engineering and technology
0	0	0	0	62	0	54	8	Medical and health sciences
26 0	0	11 0	15 0	0	0	0	0	Agricultural sciences Social sciences
148	76	50	22	209	153	53	3	Government sector
7	0	4	3	72	59	12	1	Natural sciences
62	4 0	46	12	3 35	0 2	3	0	Engineering and technology
0 3	0	0	0 3	ა ა	2	32 6	1 0	Medical and health sciences Agricultural sciences
57	53	0	4	41	40	0	1	Social sciences
19	19	0	0	50	50	0	0	Humanities
						_	-	
674	532	62	80	284	208	32	44	Tertiary education
46 23	15 0	12 19	19 4	39 38	31 13	5 18	3 7	Natural sciences
23	0	2	0	36 17	14	0	3	Engineering and technology Medical and health sciences
61	7	9	45	34	3	3	28	Agricultural sciences
400	370	18	12	65	56	6	3	Social sciences
142	140	2	0	91	91	0	0	Humanities
9	2	7	0	•	0	0	0	Non profit contar
2	2 0	2	0	0 0	0	0	0 0	Non-profit sector Engineering and technology
2	0	2	0	0	0	0	0	Medical and health sciences
5	2	3	0	0	0	0	0	Social sciences
317	106	166	45	277	47	146	84	Region Vojvodine
95	0	72	23	17	0	16	1	Natural sciences
61	11	35	15	112	2	31	79	Engineering and technology
1	1	0	0	0	0	0	0	Medical and health sciences
17 142	0 94	16 42	1 6	60 86	0 45	60 37	4	Agricultural sciences Social sciences
1	0	1	0	2	0	2	0	Humanities
85	0 0	62	23 20	4 3	0 0	3	1 0	Business sector
70 14	0	50 12	20	ა 1	0	3	1	Natural sciences Engineering and technology
14	0	0	1	0	0	0	0	Agricultural sciences
0	0	0	0	0	0	0	0	Social sciences
9	1	4	4	42	2	27	13	Government sector
7	1	2	4	21	2	6	13	Engineering and technology
2	0	2	0	21	0	21	0	Agricultural sciences
204	105	81	18	231	45	116	70	Tertiary education
20	0	17	3	14	0	13	1	Natural sciences
40	10	21	9	90	0	25	65	Engineering and technology
1	1	0	0	0	0	0	0	Medical and health sciences
0	0	0	0	39	0	39	0	Agricultural sciences
142	94	42	6	86	45	37	4	Social sciences
1	0	1	0	2	0	2	0	Humanities
19	0	19	0	0	0	0	0	Non-profit sector
5	0	5	0	0	0	0	0	Natural sciences
14	0	14	0	0	0	0	0	Agricultural sciences

8.1. R&D works, by ordering parties, fields of science

			8.1. R	&D works, Ordering		ing partie	s, tields	of science
		Enter	prises	Ordering	parties	Mini	stries	
	Total	Basic	Applied	Development	Total	Basic	Applied	Development
SRBIJA – JUG	233	_	203	30	1768	1403	218	147
Natural sciences	-	-	-	-	447	336	105	6
Engineering and technology Medical and health sciences	223	-	193	30	283 11	63 11	80	140
Agricultural sciences	-	-	-	-	33	3	30	_
Social sciences	10	-	10	-	968	964	3	1
Humanities	-	-	-	-	26	26	-	-
Business sector Natural sciences	21	-	14	7	13	1	9	3
Engineering and technology	11	-	4	7	9	1	5	3
Agricultural sciences	10	-	- 10	-	4	-	4	-
Social sciences	10	-	10	-	-	-	-	-
Government sector Engineering and technology	_	-	-	-	56 50	10 10	6	40 40
Agricultural sciences	-	-	-	-	6	-	6	-
Tertiary education	212	-	189	23	1699	1392	203	104
Natural sciences	-	-	100	-	447	336	105	6
Engineering and technology Medical and health sciences	212	-	189	23	224 11	52 11	75 -	97 -
Agricultural sciences	-	-	-	-	23	3	20	-
Social sciences	-	-	-	-	968	964	3	1
Humanities	-	-	-	-	26	26	-	-
Region Šumadije i Zapadne Srbije	10	-	10	-	408	265	106	37
Natural sciences	-	-	-	-	150	103	42	5
Engineering and technology Medical and health sciences	_	-	-	-	87 23	19 3	36 20	32
Agricultural sciences	-	-	-	-	29	3	26	-
Social sciences	10	-	10	-	135	133	2	-
Humanities	-	-	-	-	2	2	-	-
Business sector Natural sciences	10	-	10	-	6	1	5	-
Engineering and technology	-	-	-	-	6	1	5	-
Agricultural sciences	<u>-</u>	-	-	-	-	-	-	-
Social sciences	10	-	10	-	-	-	-	-
Government sector Agricultural sciences		-	-	-	6 6	-	6	-
Tertiary education		_	_	_	396	264	95	37
Natural sciences	_	-	_	-	150	103	42	5
Engineering and technology	-	-	-	-	81	18	31	32
Medical and health sciences Agricultural sciences	-	-	-	-	5	5	20	-
Social sciences		-	-	-	23 135	3 133	20	-
Humanities	-	-	-	-	2	2	-	-
Region Južne i Istočne Srbije	223	_	193	30	1360	1138	112	110
Natural sciences	-	-	-	-	297	233	63	1
Engineering and technology	223	-	193	30	196	44	44	108
Medical and health sciences Agricultural sciences	-	-	-	-	6 4	6	- 4	-
Social sciences		-	-	-	833	831	1	1
Humanities	-	-	-	-	24	24	-	-
Business sector	11	-	4	7	7	-	4	3
Engineering and technology	11	-	4	7	3 4	-	- 4	3
Agricultural sciences Social sciences	_	-	-	-	-	-	-	-
Government sector	_	-	-	-	50	10	_	40
Engineering and technology	-	-	-	-	50	10	-	40
Tertiary education	212	-	189	23	1303	1128	108	67
Natural sciences	- 242	-	-	-	297	233	63	1
Engineering and technology Medical and health sciences	212	-	189	23	143 6	34 6	44	65 -
Social sciences	_	-	-	-	833	831	1	1
Humanities	-	-	-	-	24	24	-	-
Region Kosovo i Metohija								
gion nosovo i metorija								



and type o	of researc	h, 2015 (d	continued)					
			Ordering	parties				
	Oth	er			From a	broad		
Total	Basic	Applied	Development	Total	Basic	Applied	Development	
971	300	614	57	229	134	57	38	SRBIJA – JUG
6	-	2	4	5	-	5	-	Natural sciences
668 38	15 38	607	46	111	27	47	37	Engineering and technology Medical and health sciences
3	-	2	1	-	-	-	-	Agricultural sciences
244	236	2	6	113	107	5	1	Social sciences
12 638	11	1	-	- 16	-	-	- 7	Humanities Business sector
6	1 -	595 2	42 4	-	-	9	-	Natural sciences
627	-	591	36	16	-	9	7	Engineering and technology
3 2	- 1	2	1 1	-	-	-	-	Agricultural sciences Social sciences
_	-	-	-	_	-	-	-	Government sector
-	-	-	-	-	-	-	-	Engineering and technology Agricultural sciences
333	299	19	15	213	134	48	31	Tertiary education
- 41	- 15	- 16	- 10	5 95	- 27	5 38	30	Natural sciences Engineering and technology
38	38	-	-	-	-	-	-	Medical and health sciences
-	-	-	_	-	-	-	-	Agricultural sciences
242 12	235 11	2 1	5 -	113	107	5	1 -	Social sciences Humanities
703 6	57	601 2	45 4	75 -	17 -	34	24	Region Šumadije i Zapadne Srbije Natural sciences
648	15	595	38	70	- 17	29	24	Engineering and technology
-	-	-	-	-	-	-	-	Medical and health sciences
3 8	4	2 2	1 2	- 5	-	- 5	-	Agricultural sciences Social sciences
-	-	-	-	-	-	-	-	Humanities
617	1	583	33	10	-	4	6	Business sector
6 607	-	2 579	4 28	- 10	-	4	- 6	Natural sciences Engineering and technology
3	-	2	1	-	-	-	-	Agricultural sciences
1	1	-	-	-	-	-	-	Social sciences
-	-	-	-	-	-	-	-	Government sector Agricultural sciences
86	56	18	12	65	17	30	18	Tertiary education Natural sciences
41	15	16	10	60	17	25	18	Engineering and technology
38	38	-	-	-	-	-	-	Medical and health sciences
7	3	2	2	5	-	5	-	Social sciences
-	-	-	-	-	-	-	-	Humanities
268	243	13	12	154	117	23	14	Region Južne i Istočne Srbije
- 20	-	- 12	- 8	5 41	- 10	5 18	13	Natural sciences
-	-	-	-	-	-	-	-	Engineering and technology Medical and health sciences
-	-	-	-	-	-	-	-	Agricultural sciences
236 12	232 11	- 1	4 -	108 -	107 -	-	1 -	Social sciences Humanities
21	_	12	9	6	-	5	1	Business sector
20	-	12	8	6	-	5	1	Engineering and technology
- 1	-	-	- 1	-	-	-	-	Agricultural sciences Social sciences
-	-	-	-	-	-	-	-	Government sector
-	-	-	-	-	-	-	-	Engineering and technology
247	243	1	3 -	148 5	117	18 5	13 -	Tertiary education Natural sciences
-	-	-	-	35	10	13	12	Engineering and technology
235	232	-	3	- 108	- 107	-	- 1	Medical and health sciences Social sciences
12	11	1	-	-	-	-	-	Humanities
								Region Kosovo i Metohija

9.1. Published R&D works, inventions and patents, by fields of science, 2015

		Published	R&D works		Inventions and patents						
		1	Published in			Pat	ents	Sc	old	Invention	
	Total	Own publications	Other publications in the Republic of Serbia	Foreign publica- tions	Tested inve- ntions	Pending in the Patent Office	Registere d in the Patent Office	In the Republic of Serbia	Abroad	s and patents used for the first time in practice	
REPUBLIC OF SERBIA	25256	5518	9089	11321	341	132	69	94	4	7	
Natural sciences	5606	711	1104	3844	32	25	20	6	3	-	
Engineering and technology	6636	1226	2248	3162	280	89	40	74	-	3	
Medical and health sciences	1613	51	377	1185	7	7	-	-	-	-	
Agricultural sciences	1349	353	629	599	10	7	2	4	-	3	
Social sciences	7726	2351	3739	1935	12	4	7	10	1	1	
Humanities	2326	826	992	596	-	-	-	-	-	-	
Business sector	902	154	326	422	47	19	27	11	1	3	
Natural sciences	178	18	62	98	31	15	17	-	-	-	
Engineering and technology	508	27	215	266	2	-	2	1	-	-	
Agricultural sciences	41	22	14	5	3	-	2	-	-	3	
Social sciences	175	87	35	53	11	4	6	10	1	-	
Government sector	7421	1534	2426	3526	4	14	2	6	3	-	
Natural sciences	2525	175	393	2007	1	10	1	6	3	-	
Engineering and technology	1385	262	516	607	-	1	1	-	-	-	
Medical and health sciences	150	1	10	139	-	-	-	-	-	-	
Agricultural sciences	1027	227	400	400	3	3	-	-	-	-	
Social sciences	1261	495	571	195	-	-	-	-	-	-	
Humanities	1073	374	536	178	-	-	-	-	-	-	
Tertiary education	16932	3830	6336	7373	290	99	40	77	-	4	
Natural sciences	2903	518	649	1739	<u>-</u>	-	2		-	-	
Engineering and technology	4743	937	1517	2289	278	88	37	73	-	3	
Medical and health sciences	1463	50	367	1046	7	7	-	-	-	-	
Agricultural sciences	281	104	215	194	4	4	-	4	-	-	
Social sciences Humanities	6289 1253	1769 452	3132 456	1687 418	1 -	-	1 -	-	-	1 -	
Non-profit sector	1	-	1	-	-	-	-	-	-	-	
Social sciences	1	-	1	-	-	-	-	-	-	-	
SRBIJA – SEVER	19371	4350	6803	8587	224	103	63	94	4	2	
Natural sciences	5131	683	1072	3426	32	25	20	6	3	-	
Engineering and technology	4142	764	1536	1842	165	60	36	74	-	-	
Medical and health sciences	1373	5	315	1053	7	7	-	-	-	-	
Agricultural sciences	1112	340	510	494	8	7	-	4	-	1	
Social sciences Humanities	5603 2010	1815	2507 863	1280 492	12	4	7	10	1	1	
numannes		743				-		-		-	
Business sector Natural sciences	759 178	147 18	265 62	347 98	43 31	19 15	25 17	11	1	1	
Engineering and technology	379	20	164	195	-	-	2	1		-	
Agricultural sciences	27	22	4	1	1	_	-		_	1	
Social sciences	175	87	35	53	11	4	6	10	1	-	
Government sector	7039	1484	2324	3296	4	14	2	6	3	_	
Natural sciences	2525	175	393	2007	1	10	1	6	3	-	
Engineering and technology	1085	212	466	407	-	1	1	-	-	_	
Medical and health sciences	150	1	10	139	-	-	-	-	-	-	
Agricultural sciences	945	227	348	370	3	3	-	-	-	-	
Social sciences	1261	495	571	195	-	-	-	-	-	-	
Humanities	1073	374	536	178	-	-	-	-	-	-	
Tertiary education	11572	2719	4213	4944	177	70	36	77	-	1	
Natural sciences	2428	490	617	1321	-	-	2	-	-	-	
Engineering and technology	2678	532	906	1240	165	59	33	73	-	-	
Medical and health sciences	1223	4	305	914	7	7	-	-	-	-	
	140	91	158	123	4	4	-	4	-	-	
Agricultural sciences											
Agricultural sciences Social sciences	4166	1233 369	1900 327	1032	1	-	1	-	-	1	
Agricultural sciences		1233 369	1900 327 1	1032 314	1 -	-	1 -	-	-	1 -	



		Published	R&D works				inventions	and patents		
			Published in	ı		Pat	ents	So	old	Inventi
	Total	Own publica-tions	Other publications in the Republic of Serbia	Foreign publica- tions	Tested inve-ntions	Pending in the Patent Office	Registere d in the Patent Office	In the Republic of Serbia	Abroad	s and paten used f the fir time i praction
Beogradski region	14356	3234	4710	6549	15	17	13	17	4	
Vatural sciences	4156	625	738	2843	1	10	4	6	3	
Engineering and technology	2361	313	865	1183	_	1	2	1	-	
Medical and health sciences	1152	1	251	900	_	-	_	_	_	
Agricultural sciences	815	277	246	292	2	2	_	_	_	
							7		- 1	
Social sciences	3951	1276	1816	858	12	4		10	1	
lumanities	1921	742	794	473	-	-	-	-	-	
Susiness sector	755	147	265	343	11	4	9	11	1	
latural sciences	175	18	62	95	-	-	1	-	-	
ingineering and technology	378	20	164	194	-	-	2	1	-	
gricultural sciences	27	22	4	1	-	-	-	-	-	
ocial sciences	175	87	35	53	11	4	6	10	1	
overnment sector	6415	1423	2042	3015	3	13	1	6	3	
atural sciences	2525	175	393	2007	1	10	1	6	3	
ngineering and technology	754	188	326	240	-	1	-	-	-	
ledical and health sciences	150	1	10	139	_	_	-	-	_	
gricultural sciences	652	190	206	256	2	2	_	_	_	
ocial sciences	1261	495	571	195	-	_	_	_	_	
umanities	1073	374	536	178	-	_	_	_	_	
ertiary education	7185	1664	2402	3191	1	_	3	_	_	
atural sciences	1456	432	283	741			2			
ngineering and technology	1229	105	375	749			_			
				749 761	-	-	-	-	-	
edical and health sciences	1002	-	241		-	-	-	-	-	
gricultural sciences	136	65	36	35	-	-	-	-	-	
ocial sciences umanities	2514 848	694 368	1209 258	610 295	1	-	1	-	-	
				200						
on-profit sector ocial sciences	1 1	-	1 1	-	-	-	-	-	-	
egion Vojvodine	5015	1116	2093	2038	209	86	50	77	_	
atural sciences	975	58	334	583	31	15	16	-	-	
ngineering and technology	1781	451	671	659	165	59	34	73	_	
edical and health sciences	221	4	64	153	7	7	_	_	_	
gricultural sciences	297	63	264	202	6	5	_	4	_	
ocial sciences	1652	539	691	422	_	-	_		_	
umanities	89	1	69	19	_	_	_	_	_	
usiness sector	4	_	_	4	32	15	16	_	_	
atural sciences	3	_	_	3	31	15	16	_	_	
ngineering and technology	1	_	_	1	-	-	-	_	_	
gricultural sciences	-	-	-	-	1	-	-	-	-	
overnment sector	624	61	282	281	1	1	1	-	_	
ngineering and technology	331	24	140	167	-	_	1	-	-	
gricultural sciences	293	37	142	114	1	1	-	-	-	
ertiary education	4387	1055	1811	1753	176	70	33	77		
atural sciences	972	58	334	580	-	-	-	_	_	
ngineering and technology	1449	427	531	491	165	59	33	73	_	
edical and health sciences	221	4	64	153	7	7	-	-	-	
gricultural sciences	4	26	122	88	4	4	_	4	-	
ocial sciences	1652	539	691	422	-	7	-	-	-	
00iai 301011003	89	539 1	69	19	-	-	-	-	-	

9.1. Published R&D works, inventions and patents, by fields of science, 2015 (continued)

		Published	R&D works				inventions	and patents		
			Published ir	1		Pat	ents	So	Invention	
	Total	Own publica-tions	Other publications in the Republic of Serbia	Foreign publica- tions	Tested inve-ntions	Pending in the Patent Office	Registere d in the Patent Office	In the Republic of Serbia	Abroad	s and patent used for the first time ir practic
SRBIJA – JUG	5885	1168	2286	2734	117	29	6	-	_	
Natural sciences	475	28	32	418	-	-	-	-	-	
Engineering and technology	2494	462	712	1320	115	29	4	-	-	
Medical and health sciences	240	46	62	132	-	-	-	-	-	
Agricultural sciences	237 2123	13	119 1232	105 655	2	-	2	-	-	
Social sciences Humanities	316	536 83	1232	104	-	-	-	-	-	
Business sector	143	7	61	75	4	_	2	_	_	
Engineering and technology	129	7	51	71	2	-	-	-	_	
Agricultural sciences	14	-	10	4	2	-	2	-	-	
Sovernment sector	382	50	102	230	-	-	-	-	-	
Ingineering and technology	300	50	50	200	-	-	-	-	-	
gricultural sciences	82	-	52	30	-	-	-	-	-	
ertiary education	5360	1111	2123	2429	113	29	4	-	-	
Natural sciences Engineering and technology	475 2065	28 405	32 611	418 1049	113	29	- 4	-	-	
Medical and health sciences	2003	405	62	132	-	29	4	-	-	
agricultural sciences	141	13	57	71	-	_	_	_	-	
Social sciences	2123	536	1232	655	-	-	-	-	-	
lumanities	316	83	129	104	-	-	-	-	-	
tegion Šumadije i Zapadne Srbije	2163	479	789	895	110	29	2	-	-	
latural sciences	160	-	-	160	-	-	-	-	-	
ngineering and technology	599	131	204	264	110	29	2	-	-	
ledical and health sciences	240	46	62	132	-	-	-	-	-	
gricultural sciences ocial sciences	223 715	13 289	109 292	101 134	-	-	-	-	-	
lumanities	226	209	122	104	-	-	-	-	-	
Business sector	70	_	12	58	_	_	_	_	_	
Engineering and technology	70	-	12	58	-	-	-	-	-	
Sovernment sector	82	-	52	30	-	-	-	-	_	
gricultural sciences	82	-	52	30	-	-	-	-	-	
ertiary education	2011	479	725	807	110	29	2	-	-	
atural sciences	160	-	-	160	-	-	-	-	-	
ngineering and technology	529	131	192	206 132	110	29	2	-	-	
ledical and health sciences gricultural sciences	240 141	46 13	62 57	71	-	-		_	-	
ocial sciences	715	289	292	134	_	_	-	_	_	
lumanities	226	-	122	104	-	-	-	-	-	
egion Južne i Istočne Srbije	3722	689	1497	1839	7	_	4	_	_	
ocial sciences	315	28	32	258	-	-	-	-	-	
ngineering and technology	1895	331	508	1056	5	-	2	-	-	
Agricultural sciences	14	-	10	4	2	-	2	-	-	
Social sciences	1408	247	940	521	-	-	-	-	-	
lumanities	90	83	7	-	-	-	-	-	-	
usiness sector	73	7	49	17	4	-	2	-	-	
ngineering and technology gricultural sciences	59 14	7	39 10	13 4	2 2	-	2	-	-	
overnment sector	300	50	50	200	-		_			
Engineering and technology	300	50 50	50	200	-	-	-	-	-	
ertiary education	3349	632	1398	1622	3	_	2	_		
latural sciences	315	28	32	258	-	-	-	-	-	
ingineering and technology	1536	274	419	843	3	-	2	-	-	
Social sciences	1408	247	940	521	-	-	-	-	-	
łumanities	90	83	7	-	-	-	-	-	-	
tegion Kosovo i Metohija										
	•									

10.1. Inventions and patent by R&D intensity, 2015

		Inventions and patents						
R&D intensity		Pa	tents	Inventions and	patents sold	Inventions and patents used for		
	Tested inventions	Pending in the Patent Office	Registered in the Patent Office	In the Republic of Serbia	Abroad	the first time in		
REPUBLIC OF SERBIA	341	132	69	94	4	-		
Natural sciences	32	25	20	6	3	•		
Engineering and technology	280	89	40	74	_	3		
Medical and health sciences	7	7	-	-	_	`		
Agricultural sciences	10	7	2	4	_	3		
Social sciences	12	4	7	10	1	,		
Business sector	47	19	27	11	1	;		
Natural sciences	31	15	17	-	_			
Engineering and technology	2	_	2	1	_			
Agricultural sciences	3	_	2	-	_			
Social sciences	11	4	6	10	1			
Government sector	4	14	2	6	3			
Natural sciences	1	10	1	6	3			
Engineering and technology	_	1	1	-	_			
Agricultural sciences	3	3	-	-	-			
Tertiary education	290	99	40	77	-			
Natural sciences	-	-	2	-	-			
Engineering and technology	278	88	37	73	-			
Medical and health sciences	7	7	-	-	-			
Agricultural sciences	4	4	-	4	-			
Social sciences	1	-	1	-	-			
RBIJA – SEVER	224	103	63	94	4			
Natural sciences	32	25	20	6	3			
Engineering and technology	02	20	20	O .	J			
ingineering and teermology	165	60	36	74	_			
Medical and health sciences	7	7	-	-	_			
Agricultural sciences	8	7	_	4	_			
Social sciences	12	4	7	10	1			
Business sector	43	19	25	11	1			
Natural sciences	31	15	17	• • • • • • • • • • • • • • • • • • • •				
Engineering and technology		-	2	1	_			
Agricultural sciences	1	_	-		_			
Social sciences	11	4	6	10	1			
Government sector	4	14	2	6	3			
Natural sciences	1	10	1	6	3			
Engineering and technology	'	10	1	-	3			
Agricultural sciences	3	3	-	-	-			
Tertiary education	177	70	36	77				
Natural sciences	111	70	2	-	-			
Engineering and technology	165	59	33	73				
Medical and health sciences	7	7	-	-	_			
Agricultural sciences	4	4	_	4	_			
Social sciences	1	-	1	-	-			
	45	47	40	47				
eogradski region	15	17	13	17	4			
Natural sciences	1	10	4	6	3			
Engineering and technology	-	1	2	1	-			
Agricultural sciences	2	2	-	-				
Social sciences	12	4	7	10	1			
Business sector	11	4	9	11	1			
Natural sciences	-	-	1	-	-			
Engineering and technology Social sciences	- 11	- 4	2	1 10	1			
		•						
Government sector	3	13	1	6	3			
Natural sciences	1	10	1	6	3			
Engineering and technology	-	1	-	-	-			
Agricultural sciences	2	2	-	-	-			
Tertiary education	1	-	3	-	-			
Natural sciences		_	2	_	-			
	1		1					

10.1. Inventions and patent by R&D intensity, 2015 (continued)

		Inventions and patents							
R&D intensity		Pa	tents	Inventions and	patents sold	Inventions and patents used for			
	Tested inventions	Pending in the Patent Office	Registered in the Patent Office	In the Republic of Serbia	Abroad	the first time in practice			
Region Vojvodine	209	86	50	77	-	1			
Natural sciences	31	15	16	-	-	-			
Engineering and technology	165	59	34	73	-	-			
Medical and healh sciences	7	7	-	-	-	-			
Agricultural sciences	6	5	-	4	-	1			
Business sector	32	15	16	-		. 1			
Natural sciences	31	15	16	-	-	-			
Agricultural sciences	1	-	-	-	-	1			
Government sector	1	1	1	-					
Engineering and technology	-	-	1	-	-	-			
Agricultural sciences	1	1	-	-	-	-			
Tertiary education	176	70	33	77		_			
Engineering and technology	165	59	33	73	-	-			
Medical and health sciences	7	7	-	-	-	-			
Agricultural sciences	4	4	-	4	-	-			
SRBIJA – JUG	117	29	6			. 5			
Engineering and technology	117	29	4	-	-	3			
Agricultural sciences	2	-	2	-		2			
Business sector	4	_	2	_		. 2			
Engineering and technology	2	_	-	_	_	. <u>-</u>			
Agricultural sciences	2	-	2	-	-	2			
Tertiary education	113	29	4	-		. 3			
Engineering and technology	113	29	4	-	-	3			
Danian Čumadija i Zanadna Sukija	110	29	2						
Region Šumadije i Zapadne Srbije Engineering and technology	110	29	2 2	-	•	-			
Engineering and technology	110	29		-	-	_			
Tertiary education	110	29	2	-	-	-			
Engineering and technology	110	29	2	-	-	-			
Region Južne i Istočne Srbije	7	-	4	-		. 5			
Engineering and technology	5	_	2	_	-	3			
Agricultural sciences	2	-	2	-	-	. 2			
Business sector	4	-	2	-		. 2			
Engineering and technology	2	-	-	-	-				
Agricultural sciences	2	-	2	-	-	2			
Tertiary education	3	-	2	-	-	. 3			
Engineering and technology	3	-	2	-	-	3			
Pagian Kasaya i Matahiis									
Region Kosovo i Metohija		•••	•••	•••					



11.1. Gross domestic expenditure for R&D, by sectors and fields of science, 2015

Thous. RSD

					Hilous. NoD
	Gross domestic	Gross		Current costs	
	expenditure	investments	Total	Gross salaries and wages	Material costs
REPUBLIC OF SERBIA	34990573	2783880	32206693	18960762	13245931
Natural sciences	11219108	463355	10755753	6390308	4365445
Engineering and technology	11909134	1955776	9953358	5202541	4750817
Medical and health sciences	1950853	74611	1876242	1161785	714457
Agricultural sciences	2916435	103144	2813291	1771557	1041734
Social sciences	5069936	129645	4940291	3510849	1429442
Humanities	1925107	57349	1867758	923722	944036
Business sector	11103915	1941999	9161916	4446535	4715381
Natural sciences	3336525	165314	3171211	1504957	1666254
Engineering and technology	6440283	1666734	4773549	2382891	2390658
Medical and health sciences	944574	50604	893970	390759	503211
Agricultural sciences	290747	54171	236576	128595	107981
Social sciences	91786	5176	86610	39333	47277
Government sector	9569130	434146	9134984	5898056	3236928
Natural sciences	4437114	145986	4291128	2709779	1581349
Engineering and technology	1988905	215997	1772908	1047707	725201
Medical and health sciences	244333	18408	225925	143174	82751
Agricultural sciences	1563142	31084	1532058	1073077	458981
Social sciences	504241	3002	501239	387795	113444
Humanities	831395	19669	811726	536524	275202
Tertiary education	14260714	407072 151959	13853642	8580065	5273577 1117080
Natural sciences	3444611 3453410		3292652	2175572	
Engineering and technology		73045	3380365	1751706	1628659
Medical and health sciences	760466	5421	755045	627852	127193
Agricultural sciences	1062093	17889	1044204	569885	474319
Social sciences	4446422	121078	4325344	3067852	1257492
Humanities	1093712	37680	1056032	387198	668834
Non-profit sector	56814	663	56151	36106	20045
Natural sciences	858	96	762	-	762
Engineering and technology	26536	-	26536	20237	6299
Medical and health sciences	1480	178	1302	-	1302
Agricultural sciences	453	-	453	-	453
Social sciences	27487	389	27098	15869	11229
SRBIJA – SEVER	32326428	2309878	30016550	17570119	12446431
Natural sciences	10653421	447855	10205566	6033738	4171828
Engineering and technology	10489179	1513836	8975343	4649878	4325465
Medical and health sciences	1805896	72007	1733889	1040105	693784
Agricultural sciences	2724524	96536	2627988	1660881	967107
Social sciences	4778267	122587	4655680	3306788	1348892
Humanities	1875141	57057	1818084	878729	939355
Business sector	10230731	1508742	8721989	4179181	4542808
Natural sciences	3313595	159750	3153845	1490149	1663696
Engineering and technology	5716514	1244034	4472480	2187427	2285053
Medical and health sciences	944574	50604	893970	390759	503211
Agricultural sciences	167957	49778	118179	73799	44380
Social sciences	88091	4576	83515	37047	46468
Government sector	9460370	434051	9026319	5800840	3225479
Natural sciences	4437114	145986	4291128	2709779	1581349
Engineering and technology	1919963	215997	1703966	982104	721862
Medical and health sciences	244333	18408	225925	143174	82751
Agricultural sciences	1523324	30989	1492335	1041464	450871
•	504241		501239		
Social sciences Humanities	831395	3002 19669	811726	387795 536524	113444 275202
Tertiary education	12578513	366422	12212091	7553992	4658099
Natural sciences	2901854	142023	2759831	1833810	926021
Engineering and technology	2826166	53805	2772361	1460110	1312251
Medical and health sciences	615509	2817	612692	506172	106520
Agricultural sciences	1032790	15769	1017021	545618	471403
Social sciences	4158448	114620	4043828	2866077	1177751
Humanities	1043746	37388	1006358	342205	664153
Non-profit sector	56814	663	56151	36106	20045
Natural sciences	858	96	762	-	762
Engineering and technology	26536	-	26536	20237	6299
Medical and health sciences	1480	178	1302	-	1302
Agricultural sciences	453	-	453	-	453
Social sciences	27487	389	27098	15869	11229
	1				



11.1. Gross domestic expenditure for R&D, by sectors and fields of science, 2015 (continued) Thous. RSD

•				•	Thous. RSD	
		_		Current costs		
	Gross domestic expenditure	Gross investments	Total	Gross salaries and wages	Material costs	
Beogradski region	24112725	1969251	22143474	12643605	9499869	
Natural sciences	7597443	287554	7309889	4387825	2922064	
Engineering and technology	7933463	1414205	6519258	2967608	3551650	
Medical and health sciences	1686671	69190	1617481	931480	686001	
	2188573	61213	2127360	1439692	687668	
Agricultural sciences Social sciences	2960992	95783	2865209	2112872	752337	
Humanities	1745583	41306	1704277	804128	900149	
Business sector	7184036	1304309	5879727	2385358	3494369	
Natural sciences	1585590	48013	1537577	736460	801117	
Engineering and technology	4468239	1183558	3284681	1165572	2119109	
Medical and health sciences	944574	50604	893970	390759	503211	
Agricultural sciences	111205	17558	93647	56925	36722	
Social sciences	74428	4576	69852	35642	34210	
Government sector	8844006	411779	8432227	5399919	3032308	
Natural sciences	4437114	145986	4291128	2709779	1581349	
Engineering and technology	1601208	196828	1404380	785498	618882	
Medical and health sciences	244333	18408	225925	143174	82751	
Agricultural sciences	1225715	27886	1197829	837149	360680	
Social sciences	504241	3002	501239	387795	113444	
Humanities	831395	19669	811726	536524	275202	
Tertiary education	8029180	252596	7776584	4822222	2954362	
Natural sciences	1574739	93555	1481184	941586	539598	
Engineering and technology	1837480	33819	1803661	996301	807360	
Medical and health sciences	496284	_	496284	397547	98737	
Agricultural sciences	851653	15769	835884	545618	290266	
Social sciences	2354836	87816	2267020	1673566	593454	
Humanities	914188	21637	892551	267604	624947	
Non-profit sector	55503	567	54936	36106	18830	
Engineering and technology	26536	-	26536	20237	6299	
Medical and health sciences	1480	178	1302	-	1302	
Social sciences	27487	389	27098	15869	11229	
Region Vojvodine	8213703	340627	7873076	4926514	2946562	
Natural sciences	3055978	160301	2895677	1645913	1249764	
Engineering and technology	2555716	99631	2456085	1682270	773815	
Medical and health sciences	119225	2817	116408	108625	7783	
Agricultural sciences	535951	35323	500628	221189	279439	
Social sciences	1817275	26804	1790471	1193916	596555	
Humanities	129558	15751	113807	74601	39206	
Business sector	3046695	204433	2842262	1793823	1048439	
Natural sciences	1728005	111737	1616268	753689	862579	
Engineering and technology	1248275	60476	1187799	1021855	165944	
Agricultural sciences	56752	32220	24532	16874	7658	
Social sciences	13663	-	13663	1405	12258	
Government sector	616364	22272	594092	400921	193171	
Engineering and technology	318755	19169	299586	196606	102980	
Agricultural sciences	297609	3103	294506	204315	90191	
Tertiary education	4549333	113826	4435507	2731770	1703737	
Natural sciences	1327115	48468	1278647	892224	386423	
Engineering and technology	988686	19986	968700	463809	504891	
Medical and health sciences	119225	2817	116408	108625	7783	
Agricultural sciences	181137	_	181137	-	181137	
Social sciences	1803612	26804	1776808	1192511	584297	
Humanities	129558	15751	113807	74601	39206	
Non-profit sector	1311	96	1215	-	1215	
Natural sciences	858	96	762	_	762	
Agricultural sciences	453	-	453	-	453	
SBRIIA IIIC	0004445	474000	2400442	1200642	700500	
SRBIJA – JUG	2664145	474002	2190143	1390643	799500	
Natural sciences	565687	15500	550187	356570	193617	
Engineering and technology	1419955	441940	978015	552663	425352	
Medical and health sciences	144957	2604	142353	121680	20673	
Agricultural sciences	191911	6608	185303	110676	74627	
Social sciences	291669	7058	284611	204061	80550	
Humanities	49966	292	49674	44993	4681	



11.1. Gross domestic expenditure for R&D, by sectors and fields of science, 2015 (continued) Thous. RSD

	Gross domestic	Gross		Current costs		
	expenditure	investments	Total	Gross salaries and wages	Material costs	
Business sector	873184	433257	439927	267354	172573	
Natural sciences	22930	433237 5564	17366	14808	2558	
Engineering and technology	723769	422700	301069	195464	105605	
Agricultural sciences	122790	4393	118397	54796	63601	
Social sciences	3695	600	3095	2286	809	
Social sciences	3093	000	3093	2200	809	
Government sector	108760	95	108665	97216	11449	
Engineering and technology	68942	-	68942	65603	3339	
Agricultural sciences	39818	95	39723	31613	8110	
Tertiary education	1682201	40650	1641551	1026073	615478	
Natural sciences	542757	9936	532821	341762	191059	
Engineering and technology	627244	19240	608004	291596	316408	
Medical and health sciences	144957	2604	142353	121680	20673	
Agricultural sciences	29303	2120	27183	24267	2916	
Social sciences	287974	6458	281516	201775	79741	
Humanities	49966	292	49674	44993	4681	
Region Šumadija i Zapadne Srbije	1269158	244875	1024283	740742	283541	
Natural sciences	453554	13253	440301	315328	124973	
Engineering and technology	518460	223225	295235	187348	107887	
Medical and health sciences	47952	1625	46327	34901	11426	
Agricultural sciences	72344	4528	67816	56790	11026	
Social sciences	159036	2244	156792	131339	25453	
Humanities	17812		17812	15036	2776	
Dunings and a	204000	000040	455470	00000	55067	
Business sector	381989	226816	155173	99306	55867	
Natural sciences	22930	5564	17366	14808	2558	
Engineering and technology	354781	218939	135842	82862	52980	
Agricultural sciences Social sciences	3223 1055	2313	910 1055	910 726	329	
Social sciences	1095	-	1000	720	329	
Government sector	39818	95	39723	31613	8110	
Agricultural sciences	39818	95	39723	31613	8110	
Tertiary education	847351	17964	829387	609823	219564	
Natural sciences	430624	7689	422935	300520	122415	
Engineering and technology	163679	4286	159393	104486	54907	
Medical and health sciences	47952	1625	46327	34901	11426	
Agricultural sciences	29303	2120	27183	24267	2916	
Social sciences	157981	2244	155737	130613	25124	
Humanities	17812	-	17812	15036	2776	
				.0000	20	
Region Južne i Istočne Srbije	1394987	229127	1165860	649901	515959	
Natural sciences	112133	2247	109886	41242	68644	
Engineering and technology	901495	218715	682780	365315	317465	
Medical and health sciences	97005	979	96026	86779	9247	
Agricultural sciences	119567	2080	117487	53886	63601	
Social sciences	132633	4814	127819	72722	55097	
Humanities	32154	292	31862	29957	1905	
Business sector	491195	206441	284754	168048	116706	
Engineering and technology	368988	203761	165227	112602	52625	
Agricultural sciences	119567	2080	117487	53886	63601	
Social sciences	2640	600	2040	1560	480	
Government sector	68942	-	68942	65603	3339	
Engineering and technology	68942	-	68942	65603	3339	
Tortiary adjugation	834850	22686	812164	416250	395914	
Tertiary education Natural sciences	112133	22666 2247	109886	416250	68644	
	463565	14954	448611	187110	261501	
Engineering and technology Medical and health sciences	97005		96026			
Medical and health sciences		979 4214		86779 71162	9247 54617	
Social sciences Humanities	129993 32154	4214 292	125779 31862	71162 29957	54617 1905	
Hamanides	32134	232	31002	23331	1900	
Region Kosovo i Metohija						
- ·	I .					



12.1. Sources of funds spent on R&D activities, 2015

Thous, RSD

					Thous. RSD	
	Total	Own	Government and local authorities	Private and public enterprises	Non-profit institutions	Foreign ordering parties
REPUBLIC OF SERBIA	34990573	8406244	17715427	4472044	4839	4392019
Natural sciences	11219108	1242727	5863487	2157235	606	1955053
Engineering ant technology	11909134	3314524	5192776	2047551	728	1353555
Medical and health sciences	1950853	48280	942975	7378	720	952220
Agricultural sciences	2916435	1177380	1511706	200345	3505	23499
Social sciences	5069936	2355833	2587161	59535	-	67407
Humanities	1925107	267500	1617322	-		40285
Business sector	11103915	3511773	1002082	3045868	-	3544192
Natural sciences	3336525	363688	261290	1071567	-	1639980
Engineering ant technology	6440283	2860797	662102	1953155	-	964229
Medical and health sciences	944574	-	-	7378	-	937196
Agricultural sciences	290747	264298	23557	105	-	2787
Social sciences	91786	22990	55133	13663	-	-
Government sector	9569130	1084073	7112448	1083905	1334	287370
Natural sciences	4437114	40373	3186828	1000301	606	209006
Engineering ant technology	1988905	191433	1757969	15192	728	23583
Medical and health sciences	244333	_	231041	_	-	13292
Agricultural sciences	1563142	723973	761955	68223	-	8991
Social sciences	504241	4983	481626	189	_	17443
Humanities	831395	123311	693029	-	_	15055
	14260714	3762889	9598945	342080	3052	553748
Tertiary education					3052	
Natural sciences	3444611	838666	2414511	85367	-	106067
Engineering ant technology	3453410	236399	2772255	79013	-	365743
Medical and health sciences	760466	46800	711934	400047	-	1732
Agricultural sciences	1062093	189109	726194	132017	3052	11721
Social sciences	4446422	2307726	2049758	45683	-	43255
Humanities	1093712	144189	924293	-	-	25230
Non-profit sector	56814	47509	1952	191	453	6709
Natural sciences	858	_	858	-	-	-
Engineering ant technology	26536	25895	450	191	-	-
Medical and health sciences	1480	1480	-	-	-	-
Agricultural sciences	453	_	_	_	453	_
Social sciences	27487	20134	644	-	-	6709
SRBIJA – SEVER	32326428	7570142	16258987	4321573	4839	4170887
Natural sciences	10653421	1172675	5381944	2150955	606	1947241
Engineering ant technology	10489179	2770440	4669504	1903360	728	1145147
Medical and health sciences	1805896	46045	801985	7378	720	950488
Agricultural sciences	2724524	1073505	1425750	200345	3505	21419
Social sciences	4778267	2240256	2412169	59535	3303	66307
Humanities	1875141	267221	1567635	39333	-	40285
				-	-	
Business sector	10230731	2845477	938770	2972079	-	3474405
Natural sciences	3313595	347426	260902	1065287	-	1639980
Engineering ant technology	5716514	2317129	617217	1885646	-	896522
Medical and health sciences	944574	-	-	7378	-	937196
Agricultural sciences	167957	161627	5518	105	-	707
Social sciences	88091	19295	55133	13663	-	-
Government sector	9460370	1082869	7004892	1083905	1334	287370
Natural sciences	4437114	40373	3186828	1000301	606	209006
Engineering ant technology	1919963	191433	1689027	15192	728	23583
Medical and health sciences	244333	101400	231041	10102	720	13292
Agricultural sciences	1523324	722769	723341	68223		8991
Social sciences	504241	4983	481626	189		17443
Humanities	831395	123311	693029	103		15055
Tertiary education	12578513	3594287	8313373	265398	3052	402403
Natural sciences	2901854	784876	1933356	85367	-	98255
Engineering ant technology	2826166	235983	2362810	2331	-	225042
Medical and health sciences	615509	44565	570944	-	-	-
Agricultural sciences	1032790	189109	696891	132017	3052	11721
Social sciences	4158448	2195844	1874766	45683	-	42155
Humanities	1043746	143910	874606	-	-	25230
Non-profit sector	56814	47509	1952	191	453	6709
Natural sciences	858	-7,000	858			-
Engineering ant technology	26536	25895	450	191	_	_
Medical and health sciences	1480	1480	-	-	_	_
Agricultural sciences	453	1400	_	-	453	_
Social sciences	27487	20134	644	-	-	6709
Decembel in min	04440707	000000	40054047	2022727	4000	0004000
Beogradski region	24112725	6063000	12354614	3298735	4386	2391990
Natural sciences	7597443	923711	4375286	2065588	606	232252
Engineering ant technology	7933463	2280646	3559150	979552	728	1113387
Medical and health sciences	1686671	1480	727325	7378	-	950488
Agricultural sciences	2188573	1008809	963939	200345	3052	12428
Social sciences	2960992	1633763	1238207	45872	-	43150
Humanities	1745583	214591	1490707	-	-	40285



Thous, RS

·		,	,		Thous. RS			
	Total	Own	Government and local authorities	Private and public enterprises	Non-profit institutions	Foreign ordering parties		
Business sector	7184036	2430424	883307	2045208		1825097		
			205439		-			
Natural sciences	1585590	314040		1065287	-	824		
Engineering ant technology	4468239	1992214	617217	972438	-	886370		
Medical and health sciences	944574	-	-	7378	-	937196		
Agricultural sciences	111205	104875	5518	105	-	707		
Social sciences	74428	19295	55133	-	-	-		
Government sector	8844006	1050427	6461664	1073810	1334	256771		
Natural sciences	4437114	40373	3186828	1000301	606	209006		
Engineering ant technology	1601208	166935	1426473	5097	728	1975		
Medical and health sciences	244333	-	231041	-	-	13292		
Agricultural sciences	1225715	714825	442667	68223	_	-		
Social sciences	504241	4983	481626	189	_	17443		
Humanities	831395	123311	693029	-	-	15055		
Tertiary education	8029180	2534640	5008549	179526	3052	303413		
				179520	3032			
Natural sciences	1574739	569298	983019	-	-	22422		
Engineering ant technology	1837480	95602	1515010	1826	-	225042		
Medical and health sciences	496284	-	496284	-	-	-		
Agricultural sciences	851653	189109	515754	132017	3052	11721		
Social sciences	2354836	1589351	700804	45683	-	18998		
Humanities	914188	91280	797678	-	-	25230		
Non-profit sector	55503	47509	1094	191	-	6709		
Engineering and technology	26536	25895	450	191	_	-		
Medical and health sciences	1480	1480	-		_	_		
Social sciences	27487	20134	644	-	-	6709		
Region Vojvodine	8213703	1507142	3904373	1022838	453	1778897		
Natural sciences	3055978	248964	1006658	85367	-	1714989		
Engineering ant technology	2555716	489794	1110354	923808	-	31760		
Medical and health sciences	119225	44565	74660	-	-	-		
Agricultural sciences	535951	64696	461811	-	453	8991		
Social sciences	1817275	606493	1173962	13663	-	23157		
Humanities	129558	52630	76928	-	-	-		
Business sector	3046695	415053	55463	926871	-	1649308		
Natural sciences	1728005	33386	55463	-	-	1639156		
Engineering ant technology	1248275	324915	-	913208	-	10152		
Agricultural sciences	56752	56752	-	-	-	-		
Social sciences	13663	-	-	13663	-	-		
Government sector	616364	32442	543228	10095	-	30599		
Engineering and technology	318755	24498	262554	10095	-	21608		
Agricultural sciences	297609	7944	280674	-	-	8991		
Tertiary education	4549333	1059647	3304824	85872	_	98990		
Natural sciences	1327115	215578	950337	85367	_	75833		
Engineering ant technology	988686	140381	847800	505	_	70000		
Medical and health sciences	119225	44565	74660	000				
Agricultural sciences		44303		-	-	-		
0	181137	-	181137	-	-	-		
Social sciences Humanities	1803612 129558	606493 52630	1173962 76928	-	-	23157		
Non-profit sector					452			
•	1 311 858	-	858 858	-	453	-		
Natural sciences Agricultural sciences	453	-	000	-	453	-		
Agricultural solerious	400				400			
SRBIJA – JUG	2664145	836102	1456440	150471	-	221132		
Natural sciences	565687	70052	481543	6280	-	7812		
Engineering ant technology	1419955	544084	523272	144191	-	208408		
Medical and health sciences	144957	2235	140990	-	-	1732		
Agricultural sciences	191911	103875	85956	-	-	2080		
Social sciences	291669	115577	174992	-	-	1100		
Humanities	49966	279	49687	-	-	-		
Business sector	873184	666296	63312	73789	-	69787		
Natural sciences	22930	16262	388	6280	-	-		
Engineering and technology	723769	543668	44885	67509	-	67707		
Agricultural sciences	122790	102671	18039	-	_	2080		
Social sciences	3695	3695	. 5000	=	_			
Solai Goloi Gol	1 3033	3033	-	-	-	=		



12.1. Sources of funds spent on R&D activities, 2015 (continued)

Thous. RSD

						Thous. RSD		
			Government and	Private and	Non-profit	Foreign ordering		
	Total	Own	local authorities	public enterprises	institutions	parties		
Government sector	108760	1204	107556	_	-	_		
Engineering and technology	68942	_	68942	_	_	_		
Agricultural sciences	39818	1204	38614	-	-	-		
Tertiary education	1682201	168602	1285572	76682		151345		
Natural sciences	542757	53790	481155	-	-	7812		
Engineering ant technology	627244	416	409445	76682	-	140701		
Medical and health sciences	144957	2235	140990	-	-	1732		
Agricultural sciences	29303	-	29303	-	-	-		
Social sciences	287974	111882	174992	-	-	1100		
Humanities	49966	279	49687	-	-	-		
Region Šumadije i Zapadne Srbije	1269158	377541	781100	59615		50902		
Natural sciences	453554	70052	371129	6280	_	6093		
Engineering ant technology	518460	258094	165054	53335	_	41977		
Medical and health sciences	47952	2235	43985	-	-	1732		
Agricultural sciences	72344	2205	70139	-	-	_		
Social sciences	159036	44955	112981	-	-	1100		
Humanities	17812	-	17812	-	-	-		
Business sector	381989	275996	18135	53080	-	34778		
Natural sciences	22930	16262	388	6280	-	-		
Engineering ant technology	354781	257678	15525	46800	-	34778		
Agricultural sciences	3223	1001	2222	-	-	-		
Social sciences	1055	1055	-	-	-	-		
Government sector	39818	1204	38614	-	-	-		
Agricultural sciences	39818	1204	38614	-	-	-		
Tertiary education	847351	100341	724351	6535	-	16124		
Natural sciences	430624	53790	370741	-	-	6093		
Engineering ant technology	163679	416	149529	6535	-	7199		
Medical and health sciences	47952	2235	43985	-	-	1732		
Agricultural sciences	29303	-	29303	-	-	-		
Social sciences Humanities	157981 17812	43900	112981 17812	-	-	1100		
Hamanaco	17012		17012					
Region Južne i Istočne Srbije	1394987	458561	675340	90856	-	170230		
Natural sciences	112133	-	110414	-	-	1719		
Engineering ant technology	901495	285990	358218	90856	-	166431		
Medical and health sciences	97005	-	97005	-	-	-		
Agricultural sciences	119567	101670	15817	-	-	2080		
Social sciences Humanities	132633 32154	70622 279	62011 31875	-	-	-		
				00700		05000		
Business sector	491195	390300	45177	20709	-	35009		
Engineering ant technology	368988	285990	29360	20709	-	32929		
Agricultural sciences Social sciences	119567 2640	101670 2640	15817 -	-	-	2080		
Government sector	68942		68942					
Engineering and technology	68942	-	68942	-	-	-		
Tertiary education	834850	68261	561221	70147	_	135221		
Natural sciences	112133	-	110414	-	_	1719		
Engineering ant technology	463565	_	259916	70147	_	133502		
Medical and health sciences	97005	-	97005	-	-	-		
Social sciences	129993	67982	62011	-	-	-		
Humanities	32154	279	31875	-	-	-		
Region Kosovo i Metohija		•••	***		•••	***		
<u> </u>		•••	***	•••	***	***		

12.2. Sources of funds for R&D, 2015

	Total	Own	Government and local authorities	Private and public enterprises	Non-profit institutions	Foreign ordering parties
REPUBLIC OF SERBIA	100.0	24.0	50.6	12.8	-	12.6
Natural sciences	100.0	11.1	52.3	19.2	-	17.4
Engineering and technology	100.0	27.8	43.6	17.2	-	11.4
Medical and health sciences	100.0	2.5	48.3	0.4	-	48.8
Agricultural sciences	100.0	40.4	51.8	6.9	0.1	0.8
Social sciences	100.0	46.5	51.0	1.2	-	1.3
Humanities	100.0	13.9	84.0	-	-	2.1
Business sector	100.0	31.6	9.0	27.4	-	31.9
Natural sciences	100.0	10.9	7.8	32.1	-	49.2
Engineering and technology	100.0	44.4	10.3	30.3	-	15.0
Medical and health sciences	100.0	-	-	0.8	-	99.2
Agricultural sciences	100.0	90.9	8.1	-	-	1.0
Social sciences	100.0	25.0	60.1	14.9	-	-
Government sector	100.0	11.3	74.3	11.3	_	3.0
Natural sciences	100.0	0.9	71.8	22.5	_	4.7
Engineering and technology	100.0	9.6	88.4	0.8	_	1.2
Medical and health sciences	100.0	-	94.6	-	_	5.4
Agricultural sciences	100.0	46.3	48.7	4.4	_	0.6
Social sciences	100.0	1.0	95.5		_	3.5
Humanities	100.0	14.8	83.4	-	-	1.8
Tertiary education	100.0	26.4	67.3	2.4		3.9
Natural sciences	100.0	2 6.4 24.3	67.3 70.1	2.4 2.5	-	3.9 3.1
	100.0	6.8	80.3	2.3	-	
Engineering and technology Medical and health sciences		6.2	93.6	2.3	-	10.6 0.2
	100.0			10.4	- 0.2	
Agricultural sciences	100.0	17.8	68.4	12.4	0.3	1.1
Social sciences	100.0	51.9	46.1	1.0	-	1.0 2.3
Humanities	100.0	13.2	84.5	-	-	2.3
Non-profit sector	100.0	83.6	3.4	0.3	0.8	11.8
Natural sciences	100.0		100.0	-	-	-
Engineering and technology	100.0	97.6	1.7	0.7	-	-
Medical and health sciences	100.0	100.0	-	-	-	-
Agricultural sciences Social sciences	100.0 100.0	73.2	2.3	-	100.0	24.4
Social Sciences	100.0	75.2	2.5	-	-	24.4
SRBIJA – SEVER	100.0	23.4	50.3	13.4	-	12.9
Natural sciences	100.0	11.0	50.5	20.2	-	18.3
Engineering and technology	100.0	26.4	44.5	18.1	-	10.9
Medical and health sciences	100.0	2.5	44.4	0.4	-	52.6
Agricultural sciences	100.0	39.4	52.3	7.4	0.1	0.8
Social sciences	100.0	46.9	50.5	1.2	-	1.4
Humanities	100.0	14.3	83.6	-	-	2.1
Business sector	100.0	27.8	9.2	29.1	_	34.0
Natural sciences	100.0	10.5	7.9	32.1	-	49.5
Engineering and technology	100.0	40.5	10.8	33.0	-	15.7
Medical and health sciences	100.0	-	_	0.8	-	99.2
Agricultural sciences	100.0	96.2	3.3	0.1	-	0.4
Social sciences	100.0	21.9	62.6	15.5	-	-
Government sector	100.0	11.4	74.0	11.5	_	3.0
Natural sciences	100.0	0.9	71.8	22.5	_	4.7
Engineering and technology	100.0	10.0	88.0	0.8	_	1.2
Medical and health sciences	100.0	10.0	94.6	0.0	_	5.4
Agricultural sciences	100.0	47.4	47.5	4.5	_	0.6
Social sciences	100.0	1.0	95.5	7.5		3.5
Humanities	100.0	14.8	83.4	-	-	1.8
Tertiary education Natural sciences	100.0 100.0	28.6 27.0	66.1 66.6	2.1 2.9	-	3.2 3.4
				2.9 0.1	-	3.4 8.0
Engineering and technology	100.0 100.0	8.3 7.2	83.6 92.8	0.1	-	0.0
Medical and health sciences					-	- 1 1
Agricultural sciences	100.0	18.3	67.5	12.8	0.3	1.1
Social sciences Humanities	100.0 100.0	52.8 13.8	45.1 83.8	1.1	-	1.0 2.4
			3.4	0.3	0.8	440
Non-profit sector	100.0	83.6		0.5	0.0	11.8
Natural sciences	100.0	-	100.0	-	-	-
Natural sciences Engineering and technology	100.0 100.0	97.6		0.3		11. 0 - -
Natural sciences	100.0	-	100.0 1.7	-	- - - 100.0	- - - -

12.2. Sources of funds for R&D, 2015 (continued)

	Total	Own	Government and local authorities	Private and public enterprises	Non-profit institutions	Foreign ordering parties
Beogradski region	100.0	25.1	51.2	13.7	-	9.9
Natural sciences	100.0	12.2	57.6	27.2	-	3.1
Engineering and technology	100.0	28.7	44.9	12.3	-	14.0
Medical and health sciences	100.0	0.1	43.1	0.4	-	56.4
Agricultural sciences	100.0	46.1	44.0	9.2	0.1	0.6
Social sciences Humanities	100.0 100.0	55.2 12.3	41.8 85.4	1.5 -	-	1.5 2.3
Business sector	100.0	33.8	12.3	28.5	_	25.4
Natural sciences	100.0	19.8	13.0	67.2	-	0.1
Engineering and technology	100.0	44.6	13.8	21.8	_	19.8
Medical and health sciences	100.0		10.0	0.8	_	99.2
Agricultural sciences	100.0	94.3	5.0	0.0	_	0.6
Social sciences	100.0	25.9	74.1	-	-	-
Government sector	100.0	11.9	73.1	12.1	_	2.9
Natural sciences	100.0	0.9	71.8	22.5	_	4.7
Engineering and technology	100.0	10.4	89.1	0.3	_	0.1
Medical and health sciences	100.0	-	94.6	-	_	5.4
Agricultural sciences	100.0	58.3	36.1	5.6	_	
Social sciences	100.0	1.0	95.5	-	_	3.5
Humanities	100.0	14.8	83.4	-	-	1.8
Tertiary education	100.0	31.6	62.4	2.2	_	3.8
Natural sciences	100.0	36.2	62.4		_	1.4
Engineering and technology	100.0	5.2	82.5	0.1	_	12.2
Medical and health sciences	100.0	0.2	100.0	0.1	_	-
Agricultural sciences	100.0	22.2	60.6	15.5	0.4	1.4
Social sciences	100.0	67.5	29.8	1.9	0.4	0.8
Humanities	100.0	10.0	87.3	-	-	2.8
Non-profit sector	100.0	85.6	2.0	0.3		12.1
Engineering and technology	100.0	97.6	1.7	0.3	-	12.1
Medical and health sciences	100.0	100.0	1.7	0.7	-	-
Social sciences	100.0	73.2	2.3	-	-	24.4
Desta Vet estas	400.0	40.0	47.5	40.5		04.7
Region Vojvodine	100.0	18.3	47.5	12.5	-	21.7
Natural sciences	100.0	8.1	32.9	2.8	-	56.1
Engineering and technology	100.0	19.2	43.4	36.1	-	1.2
Medical and health sciences	100.0	37.4	62.6	-	- 0.4	-
Agricultural sciences	100.0	12.1	86.2	-	0.1	1.7
Social sciences Humanities	100.0 100.0	33.4 40.6	64.6 59.4	0.8	-	1.3
Business sector	100.0	13.6	1.8	30.4	-	54.1
Natural sciences	100.0	1.9	3.2	-	-	94.9
Engineering and technology	100.0	26.0	-	73.2	-	8.0
Agricultural sciences	100.0	100.0	-	-	-	-
Social sciences	100.0	-	-	100.0	-	-
Government sector	100.0	5.3	88.1	1.6	_	5.0
Engineering and technology	100.0	7.7	82.4	3.2	-	6.8
Agricultural sciences	100.0	2.7	94.3	-	-	3.0
Tertiary education	100.0	23.3	72.6	1.9	_	2.2
Natural sciences	100.0	16.2	71.6	6.4	-	5.7
Engineering and technology	100.0	14.2	85.8	0.1	-	-
Medical and health sciences	100.0	37.4	62.6	-	-	-
Agricultural sciences	100.0	_	100.0	_	-	_
Social sciences	100.0	33.6	65.1	_	-	1.3
Humanities	100.0	40.6	59.4	-	-	-
Non-profit sector	100.0	-	65.4	_	34.6	_
Natural sciences	100.0	-	100.0	-	-	-
Agricultural sciences	100.0	-	-	-	100.0	-
SRBIJA – JUG	100.0	31.4	54.7	5.6		8.3
Natural sciences	100.0	12.4	85.1	1.1	-	1.4
Engineering and technology	100.0	38.3	36.9	10.2	-	14.7
Medical and health sciences	100.0	აი.ა 1.5	97.3	10.2	-	14.7
Agricultural sciences	100.0	54.1	44.8	-	-	1.1
Social sciences	100.0	39.6	60.0	-	-	0.4

12.2. Sources of funds for R&D, 2015 (continued)

	Total	Own	Government and local authorities	Private and public enterprises	Non-profit institutions	Foreign ordering parties
Business sector	100.0	76.3	7.3	8.5	_	8.0
Natural sciences	100.0	70.9	1.7	27.4	-	-
Engineering and technology	100.0	75.1	6.2	9.3	-	9.4
Agricultural sciences	100.0	83.6	14.7	-	-	1.7
Socials sciences	100.0	100.0	-	-	-	-
Government sector	100.0	1.1	98.9	-	-	-
Engineering and technology Agricultural sciences	100.0 100.0	3.0	100.0 97.0	-	-	-
Tertiary education	100.0	10.0	76.4	4.6	_	9.0
Natural sciences	100.0	9.9	88.7	-	_	1.4
Engineering and technology	100.0	0.1	65.3	12.2	_	22.4
Medical and health sciences	100.0	1.5	97.3		_	1.2
Agricultural sciences	100.0	-	100.0	_	_	
Social sciences	100.0	38.9	60.8	_	_	0.4
Humanities	100.0	0.6	99.4	-	-	-
Region Šumadije i Zapadne Srbije	100.0	29.7	61.5	4.7	_	4.0
Natural sciences	100.0	15.4	81.8	1.4	_	1.3
Engineering and technology	100.0	49.8	31.8	10.3		8.1
Medical and health sciences	100.0	4.7	91.7	-	_	3.6
Agricultural sciences	100.0	3.0	97.0	_	_	-
Social sciences	100.0	28.3	71.0	_	_	0.7
Humanities	100.0	-	100.0	-	-	-
Business sector	100.0	72.3	4.7	13.9	-	9.1
Natural sciences	100.0	70.9	1.7	27.4	-	-
Engineering and technology	100.0	72.6	4.4	13.2	-	9.8
Agricultural sciences	100.0	31.1	68.9	_	-	_
Social sciences	100.0	100.0	-	-	-	-
Government sector	100.0	3.0	97.0	-	-	-
Agricultural sciences	100.0	3.0	97.0	-	-	-
Tertiary education	100.0	11.8	85.5	0.8	-	1.9
Natural sciences	100.0	12.5	86.1	-	-	1.4
Engineering and technology	100.0	0.3	91.4	4.0	-	4.4
Medical and health sciences	100.0	4.7	91.7	-	-	3.6
Agricultural sciences	100.0	-	100.0	-	-	-
Social sciences Humanities	100.0 100.0	27.8	71.5 100.0	-	-	0.7
Region Južne i Istočne Srbije Natural sciences	100.0 100.0	32.9	48.4 98.5	6.5	-	12.2 1.5
Engineering and technology	100.0	31.7	39.7	10.1	_	18.5
Medical and health sciences	100.0	51.7	100.0	10.1		10.5
Agricultural sciences	100.0	85.0	13.2	_	_	1.7
Social sciences	100.0	53.2	46.8			1.7
Humanities	100.0	0.9	99.1	-	-	-
Business sector	100.0	79.5	9.2	4.2	_	7.1
Engineering and technology	100.0	77.5	8.0	5.6	-	8.9
Agricultural sciences	100.0	85.0	13.2	_	-	1.7
Social sciences	100.0	100.0	-	-	-	-
Government sector	100.0	-	100.0	-	-	-
Engineering and technology	100.0	-	100.0	-	-	-
Tertiary education	100.0	8.2	67.2	8.4	-	16.2
Natural sciences	100.0	-	98.5		-	1.5
Engineering and technology	100.0	-	56.1	15.1	-	28.8
Medical and health sciences	100.0	-	100.0	-	-	-
Social sciences	100.0	52.3	47.7	-	-	-
Humanities	100.0	0.9	99.1	-	-	-



13.1. Gross domestic expenditure on R&D by groupings of activities, 2015

Thous, RSD

			Cı	ırrent expendi	hous. RS
	Gross domestic expenditure	Gross investments	Total	Gross earnings	Materia costs
EPUBLIC OF SERBIA	34990573	2783880	32206693	18960762	1324593
Crop and animal production, hunting, hunting and related activities	99541	47	99494	81967	1752
Extraction of crude petroleum and natural gas	99178	-	99178	94082	509
Mining of metal ores	104404	42549	61855	41831	2002
Mining support service activities	890177		890177	879197	1098
Manufacture of food products	34531	9282	25249	9307	1594
Manufacture of chemicals and chemical products	45806	13067	32739	28332	440
Manufacture of rubber and plastic products Manufacture of other non-metallic mineral products	116554 30031	55576 27031	60978 3000	48457 3000	1252
Manufacture of basic metals	48661	32773	15888	15696	19
Manufacture of fabricated metal products, except machinery and equipment	133696	127127	6569	1440	512
Manufacture of computer, electronic and optical products	204232	17616	186616	71710	11490
Manufacture of machinery and equipment, n.e.c.	469126	121624	347502	34418	31308
Manufacture of motor vehicles, trailers and semi-trailers	2239	-	2239	2090	14
Manufacture of furniture	24476	316	24160	20847	331
Other manufacturing	4000	1000	3000	2000	100
Electricity, gas, steam and air conditioning supply	1199314 6542	1181945	17369	4008 6542	1336
Water collection, treatment and supply Remediation activities and other waste management services	6226	1255	6542 4971	3943	102
Specialised construction activities	22256	1233	22256	5968	1628
Wholesale trade, except of motor vehicles and motorcycles	6049	1174	4875	2286	258
Accommodation	388	388	-	-	
Telecommunications	55782	8101	47681	29338	1834
Computer programming, consultancy and related activities	103235	11616	91619	88835	278
Information service activities	424	-	424	374	5
Activities of head offices; management consultancy activities	151193	7915	143278	121635	2164
Architectural and engineering activities; technical testing and analysis	10147	-	10147	2849	729
Scientific research and development	16662942	695936	15967006	8655716	731129
Advertising and market research	11104	-	11104	3332	777
Veterinary activities Education	77528 14267935	3103 415871	74425 13852064	61320 8578782	1310 527328
Human health activities	46042	7905	38137	25354	1278
Publishing activities	25726	7905	25726	19884	584
Sports activities and amusement and recreation activities	1480	178	1302	-	130
Activities of membership organisations	29608	485	29123	16222	1290
Business sector - total	11103915	1941999	9161916	4446535	471538
Crop and animal production, hunting, hunting and related activities	7219	-	7219	6992	22
Extraction of crude petroleum and natural gas	99178	-	99178	94082	509
Mining of metal ores	104404	42549	61855	41831	2002
Mining support service activities	890177	-	890177	879197	1098
Manufacture of food products	34531	9282	25249	9307	1594
Manufacture of chemicals and chemical produts Manufacture of rubber and plastic products	45806 116554	13067 55576	32739 60978	28332 48457	440 1252
Manufacture of rubber and plastic products Manufacture of other non-metallic mineral products	30031	27031	3000	3000	1232
Manufacture of basic metals	48661	32773	15888	15696	19
Manufacture of fabricated metal products, except machinery and equipment	133696	127127	6569	1440	512
Manufacture of computer, electronic and optical products	204232	17616	186616	71710	11490
Manufacture of machinery and equipment, n.e.c.	469126	121624	347502	34418	31308
Manufacture of motor vehicles, trailers and semi-trailers	2239	-	2239	2090	14
Manufacture of furniture	24476	316	24160	20847	331
Other manufacturing	4000	1000	3000	2000	100
Electricity, gas, steam and air conditioning supply	1199314	1181945	17369	4008	1336
Water collection, treatment and supply	6542	4055	6542	6542	400
Remediation activities and other waste management services	6226	1255	4971	3943	102 1628
Specialised construction activities Wholesale trade, except of motor vehicles and motorcycles	22256 6049	1174	22256 4875	5968 2286	258
Accommodation	388	388	4073	2200	230
Telecommunications	55782	8101	47681	29338	1834
Computer programming, consultancy and related activities	103235	11616	91619	88835	278
Informaction service activities	424	-	424	374	-1
Activities of head offices; management consultancy activities	151193	7915	143278	121635	2164
Architectural and engineering activities; technical testing and analysis	10147	-	10147	2849	729
Scientific and research activities	7316925	281644	7035281	2918026	41172
Advertising and market research	11104	-	11104	3332	777
Government sector - total	9569130	434146	9134984	5898056	323692
Crop and animal production, hunting and related service activities	88042	47	87995	70990	1700
Scientific research and development	9346017	414292	8931725	5737690	319403
Veterinary activities	77528	3103	74425	61320	1310
Education Human health activities	11501 46042	8799 7905	2702 38137	2702 25354	1278
Tertiary education - total	14260714	407072	13853642	8580065	527357
Crop and animal production, hunting and related service activities	4280	-	4280	3985	29
Education	14256434	407072	13849362	8576080	527328
Non-profit sector - total	56814	663	56151	36106	2004
Publishing activities	25726	-	25726	19884	584
Sports activities and amusement and recreation activities	1480	178	1302	-	130
Activities of membership organisations	29608	485	29123	16222	1290



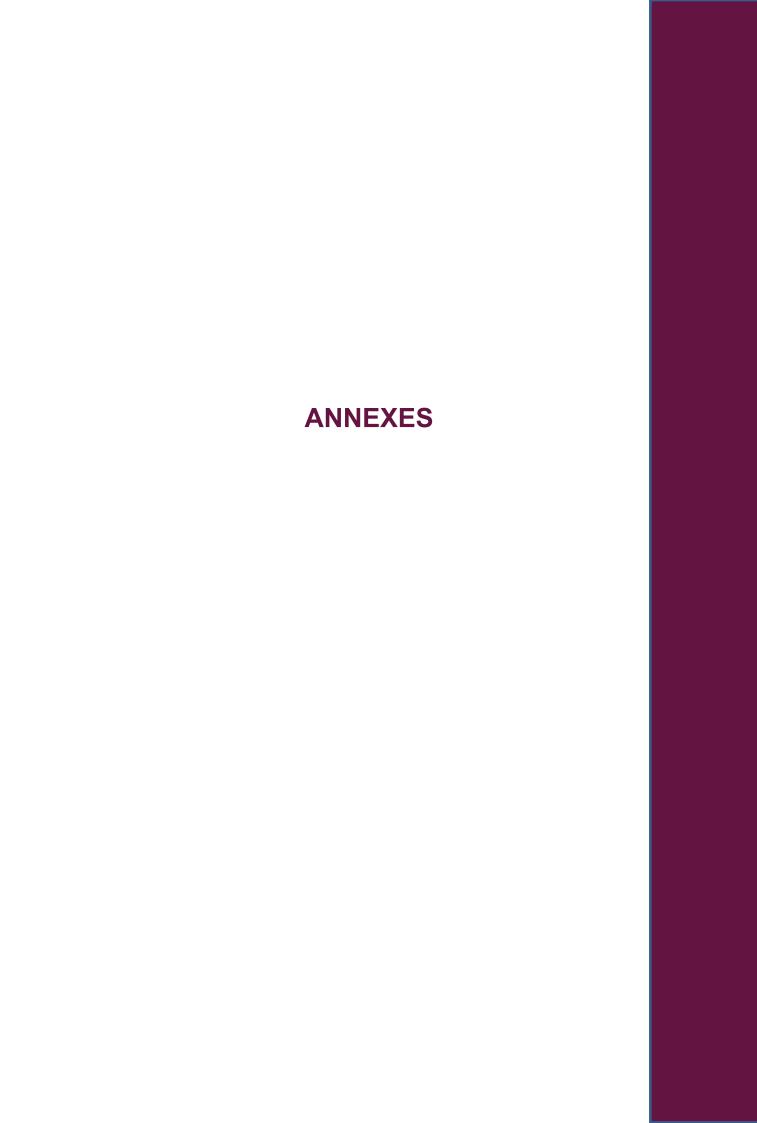
Thous, RSD

				T	hous. RSD
	Gross		Cı	ırrent expendi	ture
	domestic expenditure	Gross investments	Total	Gross earnings	Material costs
SRBIJA – SEVER	32326428	2309878	30016550	17570119	12446431
Business sector - total	10230731	1508742	8721989	4179181	4542808
Crop and animal production, hunting, hunting and related activities	7219	-	7219	6992	227
Extraction of crude petroleum and natural gas	99178	-	99178	94082	5096
Mining support service activities Manufacture of food products	890177 33530	9191	890177 24339	879197 8397	10980 15942
Products of chemicals and chemical products	44140	13067	31073	26941	4132
Manufacture of rubber and plastic products	30281	12667	17614	16632	982
Manufacture of fabricated metal products, except machinery and equipment Manufacture of computer, electronic and optical products	23031 202080	23031 17616	- 184464	69603	- 114861
Manufacture of computer, electronic and optical products Manufacture of machinery and equipment, n.e.c.	469126	121624	347502	34418	313084
Electricity, gas, steam and air conditioning supply	1039727	1026064	13663	1405	12258
Remediation activities and other waste management	6226	1255	4971	3943	1028
Specialised construction activities Wholesale trade, except of motor vehicles and motorcycles	22256 2109	-	22256 2109	5968	16288 2109
Telecommunications	18711	-	18711	14264	4447
Computer programming, consultancy and related activities	78204	6440	71764	69564	2200
Activities of head offices; management consultancy activities Artchitectural and engineering activities; technical testing and analysis	148971 10147	5693	143278 10147	121635 2849	21643 7298
Scientific research and development	7094514	272094	6822420	2819959	4002461
Advertising and market research	11104	-	11104	3332	7772
Government sector - total	9460370	434051	9026319	5800840	3225479
Crop and animal production, hunting, hunting and related activities	88042	47	87995	70990	17005
Scientific research and development	9237257	414197	8823060	5640474	3182586
Vetrinary activities Education	77528 11501	3103 8799	74425 2702	61320 2702	13105
Human health activities	46042	7905	38137	25354	12783
Tertiary education - total	12578513	366422	12212091	7553992	4658099
Crop and animal production, hunting, hunting and related activities	4280	-	4280	3985	295
Education	12574233	366422	12207811	7550007	4657804
Non-profit sector - total	56814	663	56151	36106	20045
Publishing activities Sports activities and amusement and recreation activities	25726 1480	- 178	25726 1302	19884	5842 1302
Activities of membership organisations	29608	485	29123	16222	12901
Beogradski region	24112725	1969251	22143474	12643605	9499869
Business sector - total	7184036	1304309	5879727	2385358	3494369
Crop and animal production, hunting, hunting and related activities	7219		7219	6992	227
Manufacture of food products Manufacture of chemicals and chemical products	5441 27008	814 4684	4627 22324	3369 21999	1258 325
Manufacture of computer, electronic and optical products	74239	1215	73024	52916	20108
Manufacture of machinery and equipment, n.e.c.	469126	121624	347502	34418	313084
Electricity, gas, steam and air conditioning supply	1026064	1026064	-	-	-
Remediation activities and other waste management services Specialised construction activities	6226 22256	1255	4971 22256	3943 5968	1028 16288
Wholesale trade, except of motor vehicles and motorcycles	2109	-	2109	-	2109
Telecommunications	18711	-	18711	14264	4447
Computer programming, consultancy and related activities Activities of head offices; management consultancy activities	78204 148971	6440 5693	71764 143278	69564 121635	2200 21643
Architectural and engineering activities; technical testing and analysis	10147	5095	143276	2849	7298
Scientific and research activities	5277211	136520	5140691	2044109	3096582
Advertising and market research	11104	-	11104	3332	7772
Government sector - total	8844006	411779	8432227	5399919	3032308
Crop and animal production, hunting, hunting and related activities Scientific research and development	88042 8698421	47 395028	87995 8303393	70990 5300873	17005 3002520
Education	11501	8799	2702	2702	-
Human health activities	46042	7905	38137	25354	12783
Tertiary education - total	8029180	252596	7776584	4822222	2954362
Crop and animal production, hunting, hunting and related activities	4280	-	4280	3985	295
Education	8024900	252596	7772304	4818237	2954067
Non-profit sector- total Publishing activities	55503 25726	567	54936 25726	36106 19884	18830 5842
Sports activities and amusement and recreation activities	1480	178	1302	19004	1302
Activities of membership organisations	28297	389	27908	16222	11686
Region Vojvodine	8213703	340627	7873076	4926514	2946562
Business sector - total	3046695	204433	2842262	1793823	1048439
Extraction of crude petroleum and natural gas	99178	-	99178	94082	5096
Mining support service activities Manufacture of food products	890177	- 0277	890177	879197	10980
Manufacture of food products Manufacture of chemicals and chemical products	28089 17132	8377 8383	19712 8749	5028 4942	14684 3807
Manufacture of rubber and plastic products	30281	12667	17614	16632	982
Manufacture of fabricated metal products, except machinery and equipment	23031	23031	-	-	-
Manufacture of computer, electronic and optical products Electricity, gas, steam and air conditioning supply	127841 13663	16401	111440 13663	16687 1405	94753 12258
Scientific research and development	1817303	135574	1681729	1405 775850	905879
·			•		



13.1. Gross domestic expenditure on R&D by groupings of activities, 2015 (continued)

				Th	nous. RSD
	Gross	0	Cu	ırrent expendit	ure
	domestic expenditure	Gross investments	Total	Gross earnings	Material costs
Government sector - total	616364	22272	594092	400921	193171
Scientific research and development	538836 77528	19169	519667	339601	180066 13105
Veterinary activities Tertiary education - total	4549333	3103 113826	74425 4435507	61320 2731770	1703737
Education	4549333	113826	4435507	2731770	1703737
Non-profit sector - total Activities of membership organisations	1311 1311	96 96	1215 1215	-	1215 1215
SRBIJA – JUG	2664145	474002	2190143	1390643	799500
Business sector - total	873184	433257	439927	267354	172573
Mining of metal ores Manufacture of food products	104404 1001	42549 91	61855 910	41831 910	20024
Manufacture of chemicals and chemical products	1666	-	1666	1391	275
Manufacture of rubber and plastic products Manufacture of other non-metallic mineral products	86273 7000	42909 4000	43364 3000	31825 3000	11539
Manufacture of basic metals	48661	32773	15888	15696	192
Manufacture of fabricated metal products, except machinery and equipment Manufacture of computer, electronic and optical products	133696 2152	127127	6569 2152	1440 2107	5129 45
Manufacture of motor vehicles, trailers and semi-trailers	2239	-	2239	2090	149
Manufacture of furniture	24476	316	24160	20847	3313
Other manufacturing Electricity, gas, steam and air conditioning supply	4000 159587	1000 155881	3000 3706	2000 2603	1000 1103
Water collection, treatment and supply	6542	-	6542	6542	-
Wholesale trade, except of motor vehicles and motorcycles Accommodation	3940 388	1174 388	2766	2286	480
Telecommunications	37071	8101	28970	15074	13896
Computer programming, consultancy and related activities	25031	5176	19855	19271	584
Information service activities Activities of head offices; management consultancy activities	424 2222	2222	424 -	374 -	50 -
Scientific research and development	222411	9550	212861	98067	114794
Government sector - total Scientific research and development	108760 108760	95 95	108665 108665	97216 97216	11449 11449
Tertiary education - total Education	1682201 1682201	40650 40650	1641551 1641551	1026073 1026073	615478 615478
Region Šumadije i Zapadne Srbije	1269158	244875	1024283	740742	283541
Business sector - total	381989	226816	155173	99306	55867
Mining of metal ores	52332	41246	11086	9214	1872
Manufacture of food products Manufacture of chemicals and chemical products	1001 1666	91	910 1666	910 1391	- 275
Manufacture of rubber and plastic products	86273	42909	43364	31825	11539
Manufacture of other non-metallic mineral products Manufacture of basic metals	7000 100	4000	3000 100	3000	100
Manufacture of dasic metals Manufacture of fabricated metal products, except machinery and equipment	133696	127127	6569	1440	5129
Manufacture of computer, electronic and optical products	2152	-	2152	2107	45
Manufacture of motor vehicles, trailers and semi-trailers Manufacture of furniture	2239 24476	316	2239 24160	2090 20847	149 3313
Electricity, gas, steam and air conditioning supply	5385	1845	3540	2603	937
Wholesale trade, except of motor vehicles and motorcycles Accommodation	1300 388	574 388	726	726	-
Computer programming, consultancy and related activities	5176	5176	-	-	-
Activities of head offices; management consultancy activities Scientific research and development	2222 56583	2222 922	- 55661	23153	32508
Government sector - total	39818	95	39723	31613	8110
Scientific research and development	39818	95	39723	31613	8110
Tertiary education - total Education	847351 847351	17964 17964	829387 829387	609823 609823	219564 219564
Region Južne i Istočne Srbije	1394987	229127	1165860	649901	515959
Business sector - total	491195	206441	284754	168048	116706
Mining of metal ores	52072	1303	50769	32617	18152
Manufacture of basic metals Other manufacturing	48561 4000	32773 1000	15788 3000	15696 2000	92 1000
Electricity, gas, steam and air conditioning supply	154202	154036	166	-	166
Water collection, treatment and supply Wholesale trade, except of motor vehicles and motorcycles	6542 2640	600	6542 2040	6542 1560	480
Telecommunications	37071	8101	28970	15074	13896
Computer programming, consultancy and related activities Information service activities	19855 424	-	19855 424	19271 374	584 50
Scientific research and development	165828	8628	157200	74914	82286
Government sector - total Scientific research and development	68942 68942	-	68942 68942	65603 65603	3339 3339
Tertiary education - total Education	834850 834850	22686 22686	812164 812164	416250 416250	395914 395914
Region Kosovo i Metohija					





Law on Official Statistics, "Official Statistics of the RS", number 104/2009...

Code of the survey: 021010

ANNUAL REPORT ON RESEARCH AND DEVELOPMENT FOR FACULTIES, R&D INSTITUTES IN 2015

Response obligation is based on Article 26, and punitive provisions for response refusal or provision of incomplete or incorrect data on Article 52 of the Law on Official Statistics ("Сл. гласник РС", бр. 104/2009).

The data will be used exclusively for statistical purposes and will not be published as personal data.

All the data are confidential.

This report is to be filled in by faculties, scientific institutes and R&D institutes that carried out in 2015 R&D activities according to the law on Research and Development Activity, "Official Journal of the RS", numbers 110/05 and 18/2010. _ 2016. Before completing the report, read The report is to be filled in and transmitted to the competent statistical office **not later than** carefully the general instructions on the last page of the questionnaire as well as the explanations with every table. All financial indicators are to be expressed in thousands dinars. I FULL NAME OF THE REPORTING UNIT Enter the name of the organization as indicated in the Court Register, i.e. application for the registration of scientific organizations and institutions. The research unit should enter the full name of the scientific organization and institution it is incorporated in, as well as its own name; in tables are to Registration number be shown data referring only to the unit, but not to the whole scientific organization/institution. ADDRESS – MUNICIPALITY Street and number Telephone R&D units should enter their address, but not the address of the institution they are incorporated in. III ACTIVITY _ Enter the name and code according to the Classification of Activities, 2010 **OWNERSHIP** (circle the corresponding number) state-owned private 2 mixed SCIENTIFIC FIELD Enter the name and code according to the Classification of Scientific Fields (annexed)

1. FULL-TIME AND PART-TIME EMPLOYEES ENGAGED ON R&D ACTIVITIES, EXPRESSED IN NUMBER OF PHYSICAL PERSONS AND FULL-TIME EQUIVALENT, in 2015

	Total e	employees eng	aged on R&D act	tivities		of full-time	Part-tim	e employees en	gaged on R&D a	activities
	Number of e	employees	Full-time 6	equivalent		engaged on ctivities	Number of	employees	Full-time	equivalent
	Total (5+7)	Women (6+8)	Total (5+9)	Women (6+10)	Total	Women	Total	Women	Total	Women
a	1	2	3	4	5	6	7	8	9	10
01 Total (02+14+18+19+20)										
02 Researchers - total (03 до 13)										
03 Researcher - apprentice										
04 Assistant researcher										
05 Scientific assistant										
06 Senior scientific assistant										
07 Scientific adviser										
08 Senior lecturer										
09 Associate professor										
10 Full professor										
11 Professor of vocational studies										
12 Lecturer										
13 Assistant lecturer										
14 Assistant researcher - total (15 to17)										
15 Assistant researcher										
16 Senior assistant researcher										
17 Assistant adviser										
18 Technicians										
19 Managers										
20 Other personnel (auxiliary)										

Do not enter in the table employees engaged on protection and safety, in restaurants, cleaning personnel and related personnel (concierges, porter, cleaning ladies, cooks, etc.). If an extramural assistant sign with a R&D organization during the year two or more service contracts, i.e. author contracts, this should be counted only once.

In columns 7, 8, 9 and 10 (Part-time employees engaged on R&D activities), are to be shown employees who work only part-time (less than 90%, and more than 10%).

Data in columns 3, 4, 9 and 10 are to be shown in decimal numbers with one decimal place.

Instructions for entering the data in columns 3, 4, 9 and 10 on full-time equivalent.

Equivalent: FTE

Employees in R&D, part-time (less than 90%, and more than	10%)	Number of employees	Full-time equivalent (FTE)
Total number of employees		8	= 2,7
3 persons work all the year round only half-time 2 persons work all the year round only 20% of work time 1 person works full-time 2 persons employed 8 months with 25% work time	(3 x 0,5) (2 x 0,2) (1 x 0,5) (2 x 0,67 x 0,25)	3 2 1 2	= 1,5 = 0,4 = 0,5 = 0,3

Remark: Full-time employee engaged on R&D activities corresponds to the unit of full-time equivalent (= 1 FTE).

2. EMPLOYEES ENGAGED ON R&D ACTIVITIES ON SERVICE CONTRACT (SC) OR AUTHOR CONTRACT (AC), EXPRESSED IN NUMBER OF PHYSICAL PERSONS AND FULL-TIME EQUIVALENT, in 2015

		Employ	ees engaged or	n AC or AU in R	&D field		employees	Part-time em	nployees engage	ed on AC or AU,	in R&D field
		Number of	employees	Full-time 6	equivalent	engaged on R&D	AC or AU, in field	Number of	employees	Full-time	equivalent
		Total (5+7)	Women (6+8)	Total (5+9)	Women (6+10)	Total	Women	Total	Women	Total	Women
	а	1	2	3	4	5	6	7	8	9	10
01	Total (02 to 06)										
02	Researchers										
03	Assistant researchers										
04	Technicians										
05	Managers										
06	Other employees (auxiliary)										

Remarks relative to Table 1 refer also to this table.

3. FULL-TIME AND PART-TIME EMPLOYEES ENGAGED ON R&D, ACCORDING TO EDUCATIONAL ATTAINMENT, EXPRESSED IN PHYSICAL NUMBER OF PERSONS. in 2015

_	LAT NEGGED IN THI GIOAL NUMBER OF		10, 111 20 10												
									Educationa	l attainmen	t				
		To	otal	Doctor'	s degree	Master's	s degree	Specia	alization		ersity cation		ational cation		dary and ducation
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14
01	Total (02 to 06)														
02	Researchers											Х	Х	Х	Х
03	Assistant researchers													Х	Х
04	Technicians														
05	Managers													Х	Х
06	Other employees (auxiliary)														

Remark: The table is to be filled in as follows: in columns 1 and 2, copy the values from columns 1 and 2 of table 1, then proceed with entering the data. Also, the sum of odd columns should equal the data from column 1, and the sum of even column should equal the data from column 2.

4. EMPLOYEES ENGAGED ON R&D ACTIVITIES, BASED ON SERVICE CONTRACT (SC) AND AUTHOR CONTRACT (AC), BY EDUCATIONAL ATTAINMENT EXPRESSED IN NUMBER OF PHYSICAL PERSONS. in 2015

			·						Educational	attainmen	t				
		To	otal	Doctor's	s degree	Master's	s degree	Specia	alization		ersity cation		ntional cation		dary and ducation
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14
01	Total (02 to 06)														
02	Researchers											Х	Х	Х	Х
03	Assistant researchers													Х	Х
04	Technicians														
05	Managers													Х	Х
06	Other employees (auxiliary)														

Remark: The table is to be filled in as follows: in columns 1 and 2, copy the values from columns 1 and 2 of table 2, then proceed with entering the data. Also, the sum of odd columns should equal the data from column 1, and the sum of even column should equal the data from column 2.

5. FULL-TIME AND PART-TIME EMPLOYEES ENGAGED ON R&D, BY EDUCATIONAL ATTAINMENT, FXPRESSED IN FULL-TIME EQUIVALENT. in 2015

									Educational	attainmen	t				
		To	otal	Doctor's	s degree	Master's	s degree	Specia	llization		ersity ation		itional cation		dary and education
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14
01	Total (02 to 06)														
02	Researchers											Х	Х	Х	Х
03	Assistant researchers													Х	Х
04	Technicians														
05	Managers													Х	Х
06	Other employees (auxiliary)														

Remark: The table is to be filled in as follows: in columns 1 and 2, copy the values from columns 3 and 4 of table 1, then proceed with entering the data. Also, the sum of odd columns should equal the data from column 1, and the sum of even column should equal the data from column 2.

6. EMPLOYEES ENGAGED ON R&D ACTIVITIES, BASED ON SERVICE CONTRACT (SC) AND AUTHOR CONTRACT (AC), BY EDUCATIONAL ATTAINMENT EXPRESSED IN FULL-TIME EQUIVALENT in 2015

		_	_						Educationa	I attainmen	t				
		Tota	i otai		s degree	Master's	degree	Specia	lization	University	education	Vocational education		Secondary educ	and other ation
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14
01	Total (02 to 06)														
02	Researchers											Х	Х	Х	Х
03	Assistant researchers													Х	Х
04	Technicians														
05	Managers													Х	Х
06	Other personnel (auxiliary)														

Remark: The table is to be filled in as follows: in columns 1 and 2 copy the values from columns 3 and 4 of table 2, then proceed with entering the data. Also, the sum of odd columns should equal the data from column 1, and the sum of even columns should equal the data from column 2.

7. FULL-TIME AND PART-TIME EMPLOYEES ENGAGED ON R&D, BY AGE AND SEX,

EXPRESSED IN NUMBER OF PHYSICAL PERSONS, in 2015

			Resea	rchers			Assistant r	esearcher	s		Techn	icians			Man	agers	
		Full	-time	Par	t-time	Full	-time	Par	t-time	Full	-time	Par	t-time	Full	-time	Par	t-time
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
01	Total (02 to 12)																
02	Under 25 years																
03	25 – 29																
04	30 – 34																
05	35 – 39																
06	40 – 44																
07	45 – 49																
08	50 – 54																
09	55 – 59																
10	60 – 64																
11	65 – 69																
12	70 and over																

In the table, full-time and part-time R&D employees are to be broken down by age groups. It should be noted that **other personnel should not be broken down by age**Shown are all those who are shown in column 1 from table 1, for "total number of employees" and in column 2 for "women". The data by categories in row 01 of this table should match **with data from table 1** (full-time and part-time employees), as follows:

Full-time employees	
Researchers	row 02, columns: 05, 06
Assistant researchers	row 14, columns: 05. 06
Technicians	row 18, columns: 05, 06

Managers row 19, columns: 05, 06

Pa	rt_tın	വകമ	മവ	ovees

Researchers	row 02, columns: 07, 08
Assistant researchers	row 14, columns: 07. 08
Technicians	row 18, columns: 07, 08
Managers	row 19, columns: 07, 08

8. FULL-TIME AND PART-TIME RESEARCHERS, BY CITIZENSHIP AND SEX, EXPRESSED IN NUMBER OF PHYSICAL PERSONS

	Citizenship	Total number of re	esearchers in 2015	Researchers who ca	ame in Serbia in 2015	Researchers who	went abroad in 2015	Planned number of
(by geographical position of the country)	Total	Women	Total	Women	Total	Women	researchers for 2016
	а	1	2	3	4	5	6	7
01	Total (02 to 05)							
02	Serbia							
03	EU member countries							
04	Other European countries							
05	Other							

In table 8 full-time and part-time **researchers** are to be broken down by citizenship (geographical position of the country).

In columns 3 and 4, are to be shown all the researchers who came from abroad between 01/01/2015 and 21/12/2015 and worked in R&D activities more than 3 months. In columns 5 and 6 are to be shown all the researchers who left Serbia between 01/01/ 2015 and 31/12/ 2015.

The data in row 01 in columns 1 and 2 of this table should **match the data in table 1 in columns 1 and 2,** i.e.: Researchers – total Women – total

9. EXPENDITURES FOR R&D ACTIVITIES IN 2015 (in thousands RSD)

		I	Expenditures for R&D	Spent in 2015	Planned for 2016
			a	1	2
01	Total e	expenditure for R&D	(02+07+12)		
02			Total (03+05+06)		
03			Gross salaries and wages for all R&D employees		
04		Labor costs and employees'	Of which gross salaries and wages of researchers		
05	,,	remunerations	Other personal income of R&D employees (scholarships, prizes, etc.)		
06	ost		Other		
07	int o		Total (08 to 11)		
80	Current costs		For material costs for R&D work (raw materials, equipment, energy)		
09		Other current costs	For payments based on service contracts and author contracts		
10			For daily allowances, travel costs, etc.		
11			Other operating costs and expenses (without depreciation)		
12			Total (13+14+16+17+18)		
13			For land and buildings		
14			For machinery and equipment		
15	l ı	nvestment costs	Of which for imported machinery and equipment		1
16	1		For patent, licenses, studies and projects		1
17			For software and hardware 1)		1
18			Other		1

¹⁾ Are to be shown total costs for the acquisition of computers, components and equipment, as well as costs for the acquisition and development of software for own account.

In table 9 are to be shown all funds spent in 2015 for R&D activities, as well as planned funds for 2016.

Remark: The data in row 01, column 1 (total expenditures for R&D) should equal the data in table 10, in row 01 (sources of funds spent for R&D activities - total).

10. SOURCES OF FUNDS SPENT FOR R&D ACTIVITIES IN 2015

	Sources of funds			Amount in thousands RSD	
	a			1	
01	Funds s	pent for R&D by sources - to	al (02 to 21)		
02		Diamagad budayatanı funda	From the Ministry of Science		
03	Serbia)	Planned budgetary funds dedicated R&D	From the Ministry of Education		
04	Sel	addicated Hab	From other ministries		
05	(from	Funds for R&D from other gov	ernment funds, agencies and foundations		
06	Ĵ.	Funds for R&D from local auth	orities' bodies		
07	Domestic funding	Frieds for DOD from	from "small" (0 - 49 employees)		
80	oun .	Funds for R&D from enterprises	from "medium" (50 - 249 employees)		
09	tic f	Cherphoco	from "large" (250 and more employees)		
10	Jes	Funds for R&D from non-profit	organizations		
11	_ e	Funds from patents, licenses,	etc. (from inward sale)		
12		Other funds for R&D from own	sources		
13		Funds from agreements on te	chnological licenses		
14	ъ	Funds from services for foreig	n ordering parties		
15	abroad	Funds from joint investment in	R&D		
16	ab	Funds for R&D from other cou	ntries' governments		
17] He	Funds for R&D from the unive	rsity and other tertiary education institutions		
18	ds fr	Funds for R&D from non-profit	organizations		
19	Funds from	Funds for R&D from the European Commission			
20	Ш	Funds for R&D from internatio	nal organizations		
21		Other			

In table 10 are to be shown funds **obtained** for R&D activities by sources. **Remark**: The data in row 01 should equal the data in **table 9, row 01, column 1** (total expenditures for R&D).

11. VALUE OF R&D WORKS (PROJECTS AND STUDIES), BY SCIENTIFIC FIELDS AND TYPE OF RESEARCH (include also funded from own resources – in thousands RSD), 2015

	Scientific field		Type of research			
			Basic	Applied	Experimental (development)	
	а	1	2	3	4	
01	Total					
02	Natural sciences, mathematics					
03	Engineering and technology					
04	Social sciences					
05	Humanities					
06	Medical sciences					
07	Agricultural sciences					
08	Multidisciplinary sciences					

The data in column <u>TOTAL</u> should match the data in column <u>total</u> in table 12. For on-going projects (non-completed) is to be shown the value of <u>completed phases of work up to the end of 2012.</u> Use the annexed classification to determine the scientific field of R&D works.

12. FUNDS FOR R&D BY PRIMARY SOCIO-ECONOMIC OBJECTIVES, 2015 (in thousands RSD)

	Primary socio-economic objectives	Total	Of which budgetary funds
	a	1	2
01	Total (02+03+04+05+06+07+08+09+10+11+12+13+20+27)		
02	Development of agriculture, forestry and fishing		
03	Promotion of industrial development technology		
04	Production and rational use of energy		
05	Transport and telecommunications		
06	Urban and rural planning		
07	Combating pollution		
08	Pollution identification and control		
09	Health		
10	Social development and services		
11	Exploitation and exploration of Earth and atmosphere		
12	General advancement of knowledge	·	
13	Civil space exploration		
14	Defence		

13. NUMBER OF R&D WORKS (PROJECTS AND STUDIES, BY SCIENTIFIC FIELDS AND TYPES OF RESEARCH (include also projects funded from own resources), 2015

	Scientific field		Type of research			
			Basic	Applied	Experimental (development)	
	а	1	2	3	4	
01	Total					
02	Natural sciences, mathematics					
03	Engineering and technology					
04	Social sciences					
05	Humanities					
06	Medical sciences					
07	Agricultural sciences					
08	Multidisciplinary sciences					

Remark: The row "Total" in this table should match the row "Total" in table 14.

14. NI	JMBER (OF R&D WORKS BY ORDERING PARTIES	S AND TYPES OF RESEAR	CH, 2015		
				R&D v	works	
Ordering party		Total (2 to 4)	Basic	Applied	Experimental (development)	
	1	а	1	2	3	4
01	Total (0	02+09)				
02		Inward – total (03 to 08)				
03	serbia	For own account				
04	Ordering parties from Serbia	Enterprises in Serbia				
05	rties f	Ministry of Science				
06	ng pa	Ministry of Education				
07	Orderi	Other ministries				
80]	Other				
09		Outward – total (10 to 16)				
10	oad	Enterprises				
11	n abro	Other countries' governments				
12	s fror	Non-profit organizations				
13	partie	Tertiary education institutions				
14	Ordering parties from abroad	European Commission				
15	Ord	International organizations				
16		Other				

15. PUBLISHED R&D ARTICLES AND MONOGRAPHIES, 2015

Total		Published in publications				
	(actual number of projects)	Own Others in Serbia		Abroad		
	1	2	3	4		
01						

In column 1 every published paper should be counted only once regardless of the type of publications and the number of times it has been published.

16. INVENTIONS AND PATENTS, 2015

			Pate	ents	Patents – inv	entions sold	First-time
R&D intensity		Tested inventions	Pending patents in the Patent Office	Patents registered in the Patent Office	In Serbia	Abroad	practical use of patents and inventions
	а	1	2	3	4	5	6
01	Total						
02	High technology						
03	Medium high technology						
04	Medium low technology						
05	Low technology						

16a. SMALL INVENTIONS AND PATENTS, 2015

			Small	patents	Small patents -	inventions sold	First-time
	R&D intensity	Small tested inventions	Pending patents in the Patent Office	Patents registered in the Patent Office	In Serbia	abroad	practical use of small patents and inventions
	а	1	2	3	4	5	6
01	Total						
02	High technology						
03	Medium high technology						
04	Medium low technology						
05	Low technology						

on	2016				
	Filled in by:				Manager:
		(Seal)			
(first r	name and surname)		_		(first name and surname)
Contact telephone:				_	
	(area pr	efix compulsory)			

GENERAL DEFINITIONS AND EXPLANATIONS FOR FILLING IN THE FORM IR - 2

COVERAGE

This form serves to collect data on R&D activities which have been carried out in enterprises, as well as in: centers for technology transfer, innovation centers, business and technological incubators, and scientific and technological parks in Serbia in 2015.

An institute is a R&D organization that is engaged in R&D activity of general interest as laid down in the Law. An institute can be founded as an institution or enterprise.

Depending on the type of research and activity, organizational form and funding of own activity; an institute can carry out R&D activity as: scientific institute and R&D institute. As to ownership, an institute can be state-owned, private or in mixed ownership. A scientific institute is an institution which prevailing activity is relative to basic and applied researches, the latter serving to valorize the results of basic researches.

A research and development institute is an organization which primary activity is relative to applied and experimental (development) researches focused on satisfying the needs of direct users of research results.

Covered are all tertiary education institutions (faculties of science, arts academies, universities) whatever the ownership (state-owned, private or mixed).

The status of centers of excellence may be granted to an institute, i.e. tertiary education institution or their organizational part/s if they have achieved in a five-year period ultimate and internationally recognised scientific and professional results in a selected scientific discipline, having consequently developed international, technical and technological co-operation.

If the status of the centre of excellence acquires part/s of an institute, i.e. tertiary education institution, the centre does not have the capacity of a legal person.

Research and development organizations that can get accreditation for these activities are: institutes, faculties, integrated universities, centers of excellence and R&D organizations from the domain of defense and Serbian Armed Forces.

DEFINITION OF RESEARCH AND DEVELOPMENT ACTIVITY (R&D)

Research and development is a systematic creative work undertaken in view of discovering new stock of knowledge in order to raise the general civilization level of the society and use the knowledge in all social fields.

The scientific activity is realized through basic, applied and experimental (development) researches as well as through training personnel for R&D work.

- **BASIC** research is a creative, systematic activity focused on acquiring new knowledge on the origin and causes of phenomena and facts, without any particular application or use in view. The results of a basic research are often formulated a general principles, theories or rules.
- **APPLIED** research is undertaken whether to establish a possibility to use the results of a research, having in mind its practical application, or to find new methods or ways that facilitate the achievement of a particular objective set in advance. This survey starts from existing knowledge and examines it thoroughly in view of solving specific issues.
- **EXPERIMENTAL (DEVELOPMENT)** research is a creative systematic activity based on the results of the basic and applied research, and practical knowledge directed towards introducing new materials, products, devices, processes and methods.

The main difference between R&D activity and activities other than R&D is in the presence or absence of elements of novelty or innovation **to a greater extent**. If an activity introduces considerable improvements to technological characteristics, components, hardware and software, i.e. applies a new or significantly improved product, process or service, as well as new organizational methods, it is to be obligatorily **included** in this survey.

The coverage excludes activities that do not fall into R&D survey:

- routine tests and analyses of all forms, whether serving for the control of hardware, components or products or being focused on their quality and quantity (tests and analysis that are part of a R&D process should be however included);
 - market research, operating research, work studies, costs analysis, management activities, etc;
 - experimental production where product improvement is not the primary goal;
 - design costs aiming at monitoring fashion trends and activities of art modeling;
- legal and administrative operations relative to the application and registration of patents, operations relative to the sale of patents and licenses, experimental activities carried out only for the purpose of patent registration.

OBJECTIVES OF R&D ACTIVITY:

- 1) development of science, technology and education in order to boost economic growth, increase the social product and raise citizens' living conditions;
- 2) preservation and development of general stock of knowledge, as a condition to inclusion to world integration processes;
- 3) preservation and development of total R&D potentials (R&D and educational institutions, scientific personnel and R&D infrastructure);
- 4) raising of the general level of technology in the economy and securing the competitiveness of goods and services on national and international markets;
- 5) establishing international scientific co-operation in view of faster integration into world scientific, economic, social and cultural trends, as well as inclusion in European research area:
- 6) orienting the society towards innovations, creation of cultural ambiance and creative education in order to preserve civilization patrimony and national identity.

FUNDING OF R&D ACTIVITY

Funds for R&D activity are secured from:

- 1) Founder's resources;
- 2) Budget of the Republic;
- 3) Budget of the autonomous province and units of local authorities;
- 4) Resources of enterprises, associations and other organizations;
- 5) Own income of R&D organizations;
- 6) Resources of domestic funds and foundations, gifts of legal and physical persons;
- 7) Resources of foreign foundations, legal and physical persons, donations;
- Other sources provided that the autonomy and dignity of R&D activity is not exposed.

Sub-funding of programs and projects of regional significance for the development of R&D activity

Budgetary funds of the Republic of Serbia can be used to sub-finance programs and projects of regional significance for R&D activity, being:

- 1. projects of building R&D infrastructure;
- 2. R&D projects of regional significance (projects on international co-operation, projects on eco-systems and innovation projects carried out by small and medium enterprises);
- 3. programmes of development of R&D personnel.

METHODOLOGICAL BASIS

Methodological basis for this survey are the international standards set up by OECD and published in the FRASCATI Manual 2002. All international classifications are used and are annexed to the instructions for filling in the Annual Report on Research and Development Activity.

More explanations and instructions are available at the Statistical Office of the Republic of Serbia, Milana Rakica 5, Belgrade, Section of Science, Culture and Other Social Activities Statistics, telephone number: 011 2412922, extension 425 and 357.

ANNEX

For filling in the Annual Report on Research and Development - IR

CLASSIFICATION OF SCIENTIFIC FIELDS

1. Natural sciences

- 101 Mathematics
- 102 Computer and information sciences
- 103 Physical sciences
- 104 Chemical sciences
- **105** Earth and related environmental sciences
- 106 Biological sciences
- 107 Other natural sciences

2. Engineering and technology

- 201 Civil engineering
- **202** Electrical engineering, electronic engineering and information engineering
- 203 Mechanical engineering
- 204 Chemical engineering
- 205 Materials engineering
- 206 Medical engineering
- 207 Environmental engineering
- 208 Environmental biotechnology
- 209 Industrial biotechnology
- 210 Nano-technology
- 211 Other engineering and technology

3. Medical and health sciences

- 301 Basic medicine
- 302 Clinical medicine
- 303 Health science
- 304 Medical biotechnology
- 305 Other medical sciences

4. Agricultural sciences

- **401** Agricultural sciences, forestry and fisheries
- 402 Animal and dairy science
- 403 Veterinary science
- 404 Agricultural biotechnology
- 405 Other agricultural science

5. Social sciences

- 501 Psychology
- 502 Economics and business
- 503 Educational science
- 504 Sociology
- **505** Law
- 506 Political science
- **507** Social and economic geography
- 508 Media and communications
- 509 Other social sciences

6. Humanities

- 601 History and archeology
- 602 Language and literature
- 603 Philosophy, ethics and religion
- **604** Arts (history of arts, performing arts, music)
- 605 Other humanities

Source: FOS - Fields of Science and Technology, OECD - 2006

CLASSIFICATION OF ACTIVITIES – 2010 REVIEW OF THE SECTIONS AND DIVISIONS OF THE CLASSIFICATION OF ACTIVITIES

CODE	DESCRIPTION OF SECTIONS/DIVISIONS
Α	AGRICULTURE, FORESTRY AND FISHING
01 03	Crop and animal production, hunting and related service activities Fishing and aquaculture
В	MINING AND QUARRYING
05 06 07 08 09	Mining of coal and lignite Extraction of crude petroleum and natural gas Mining of metal ores Other mining and quarrying Mining support service activities
С	MANUFACTURING
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	Manufacture of food products Manufacture of beverages Manufacture of tobacco products Manufacture of textiles Manufacture of wearing apparel Manufacture of leather and related products Manufacture of wood and of products of wood, except furniture; manufacture of articles of straw and plaiting materials Manufacture of paper and paper products Printing and reproduction of recorded media Manufacture of coke and refined petroleum products Manufacture of chemicals and chemical products Manufacture of basic pharmaceutical products and pharmaceutical preparations Manufacture of rubber and plastic products Manufacture of other non-metallic mineral products Manufacture of basic metals Manufacture of fabricated metal products, except machinery and equipment Manufacture of electrical equipment Manufacture of machinery and equipment, n.e.c. Manufacture of other transport equipment Manufacture of other transport equipment Manufacture of furniture Other manufacturing
33	Repair and installation of machinery and equipment
D	ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY
35 E	Electricity, gas, steam and air conditioning supply WATER SUPPLY; SEWERAGE, WASTE MANGEMENT AND REMEDIATION ACTIVITIES
36 37 38 39	Water collection, treatment and supply Sewerage Water collection, treatment and disposal activities; material recovery Remediation activities and other waste management services
F	CONSTRUCTION
41 42 43	Construction of buildings Civil engineering Specialised construction activities
G	WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES
5 46 47	Wholesale and retail trade and repair of motor vehicles and motorcycles Wholesale trade, except of motor vehicles and motorcycles Retail trade, except of motor vehicles and motorcycles
Н	TRANSPORTATION AND STORAGE
49	Land transport and transport via pipelines

CODE	DESCRIPTION OF SECTIONS/DIVISIONS
50	Water transport
51	Air transport
52 53	Wharehousing and support activities for transportation Postal and courier activities
I	ACCOMMODATION AND FOOD SERVICE ACTIVITIES
55 56	Accommodation Food and beverage service activities
J	INFORMATION AND COMMUNICATION
58	Publishing activities
59	Motion picture, video and television programme, production, sound recording and music publishing activities
60	Programming and broadcasting
61	Telecommunications
62 63	Computer programming, consultancy and related activities Information service activities
K	FINANCIAL AND INSURANCE ACTIVITIES
64	Financial service activities, except insurance and pension funding
65	Insurance, reinsurance and pension funding, except compulsory social insurance
66	Activities auxiliary to financial services and insurance activities
L	REAL ESTATE ACTIVITIES
68	Real estate activities
М	PROFESSIONAL, SCIENTIFIC, INNOVATION AND TECHNICAL ACTIVITIES
69	Legal and accounting activities
70	Activities of head offices; management consultancy activities
71 72	Architectural and engineering activities; technical testing and analysis Scientific and development
73	Advertising and market research
74	Other professional, scientific and technical activities
75	Veterinary activities
N	ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES
77	Rental and leasing activities
78 70	Employment activities Travel agency, their projects and other reconnection convices and related activities
79 80	Travel agency, tour operator and other reservation service and related activities Security and investigation activities
81	Services to buildings and landscape activities
82	Office administrative, office support and other business support activities
Р	EDUCATION
85	Education
Q	HUMAN HEALTH AND SOCIAL WORK ACTIVITIES
86	Human health activities
87	Residential care activities
88 90	Social work activities without accommodation Creative, arts and entertainment activities
91	Libraries, archives, museums and other cultural activities
92	Gambling and betting activities
93	Sports activities, amusement and recreation activities
S	OTHER SERVICE ACTIVITIES
94	Activities of membership organisations
95	Repair of computers and personal and household goods
96	Other personal service activities
Т	ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS; UNDIFFERENTIATED GOODS AND SERVICE – PRODUCING ACTIVITIES OF HOUSEHOLDS FOR WON USE
97 08	Activities of households as employers of personnel
98 U	Undifferentiated goods – and services – producing activities of households for own use ACTIVITIES OF EXTRATERRITORIAL ORGANIZATIONS AND BODIES
99	
99	Activities of extraterritorial organizations and activities

Classification of manufacturing according to research and development intensity According to OECD methodology

High technology

Aircrafts and spacecrafts
Pharmaceuticals
Office accounting and computing machinery
Radio, TV and telecommunication equipment
Medical, precision and optical instruments

Medium low technology

Coke, refined petroleum products and nuclear fuel Rubber and plastics Other non-metallic mineral products Building and repairing of ships and boats Basic metals Manufacture of fabricated metal products, except machinery and equipment

Medium high technology

Electrical machinery and apparatus Motor vehicles, trailers and semi-trailers Chemicals, excluding pharmaceuticals Transports equipment, n.e.c. Machinery and apparatus

Low technology

Manufacturing, n.e.c. Wood and furniture Paper, printing industry Textile industry

CLASSIFICATION OF SOCIO-ECONOMIC OBJECTIVES

According to OECD methodology -- NABS 2007

(Nomenclature for the analysis and comparison of scientific programmes and budget)7)

Objective code number	SOCIO-ECONOMIC OBJECTIVE										
001	Exploration and exploitation of the Earth										
	- Exploration of the earth crust and mantle, seas, oceans and atmosphere and their exploitation										
	- Climatic and meteorological research, polar exploration										
	- Mineral, oil and natural gas prospecting										
	- Exploration and exploitation of the sea-bed										
	- Hydrology										
	- Seas and oceans										
	- Atmosphere										
002	Environment										
	- Control of pollution, identification and analysis of the sources of pollution										
	- Pollutants, their dispersal in the environment and their effect of all living organisms										
	- Development of monitoring facilities for the measurement of all kinds of pollution										
	- Elimination and prevention of all kinds of pollution in all types of environment										
	- Protection of atmosphere and climate										
	- Waste management										
	- Treatment of water										
	- Protection of soil and underground water										
	- Reduction of noise and vibration										
	- Protection of species and habitats										
	- Protection against natural hazards										
	- Radioactive pollution										
003	Exploration and exploitation of space										
	- R&D related to civil space										
	- Applied research programmes										
	- Launch systems										
	- Space laboratories and space travel										
004	Transport, telecommunications and other infrastructures										
	- Infrastructure and land development, including the construction of buildings										
	- Protection against harmful effects in town and country planning										

number	SOCIO-ECONOMIC OBJECTIVE
	- Transport systems
	- Telecommunication systems
	- General planning of land use
	- Construction and planning of buildings
	- Civil engineering (bridges, roads, machinery,)
	- Water supply
005	Production and rational utilisation of energy
	- Production, storage, transportation, distribution and rational use of all forms of energy
	- Processes designed to increase the efficiency of energy production and distribution
	- Efficient use of energy, study of energy conservation
	- CO2 capture and storage
	- Renewable energy sources
	- Nuclear fission and fusion
	- Hydrogen and fuel gas
	- Other power and storage technologies
006	Industrial production and technology
	- Improvement of industrial production and technology
	- Increasing economic efficiency and competitivenesss
	- All manufactures
	- Recycling (metal and non-metal)
007	Health
	- Prevention, surveillance and control of communicable and non-communicable diseases
	- Monitoring the health situation
	- Health promotion
	- Occupational health
	- Public health legislation and regulations
	- Health care for vulnerable and high-risk populations
800	Agriculture
	- Promotion of agriculture, forestry and fisheries
	- Fertilizers, biocides, biological pest control and mechanization of agriculture
	- Impact of forestry on the environment
	- Development and productivity of food productivity and technology
	- Agriculture, forestry and fisheries
009	- Veterinary and other agricultural sciences Education
009	- General education, including training, pedagogy and didactics
	- Special education, including training, pedagogy and didactics - Special education (for gifted persons, those with learning disabilities)
	- Pre- and primary school
	- Secondary education
	- Tertiary education
010	Culture, recreation, religion and mass media
0.0	- Impact of cultural activities, religion and leisure on life in society
	- Racial and cultural integration and socio-cultural changes in these areas.
	- Covers: sociology, theology, art, sport and leisure.
	- Culture covers: language, social integration, libraries, archives and external cultural policy.
	- Recreational and sporting services
	- Cultural services
	- Broadcasting and publishing activities
1	· · · · · · · · · · · · · · · · · · ·

SOCIO-ECONOMIC OBJECTIVE

Objective code

Objective code	SOCIO-ECONOMIC OBJECTIVE
number	

	T
	- Religious and other community services
011	Political and social systems, structures and processes
	- Socio-political system
	- Public administration issues and economic policy
	- Regional studies and multi-level governance
	- Social changes, processes and conflicts
	- Development of social security and social assistance systems
	- Social aspects of the organization of work
	- Gender-related discrimination
	- Development of methods of combating poverty on local, national and international level
	- Protection of specific categories of population
	- Methods of providing social assistance
012	General advancement of knowledge: R&D financed from General University Funds:
0121	R&D related to natural sciences - Mathematics, computer and information science, physics, chemistry, biology, earth and environmental sciences, other natural sciences
0122	R&D related to engineering sciences - Civil engineering (bridges, roads, machinery,), electrical engineering, electronic engineering, information engineering, mechanical engineering, chemical engineering, technology, medical engineering, environmental engineering, biotechnology, nano-technology, other technologies.
0123	R&D related to medical sciences
	- General medicine, clinical medicine, medical biotechnology and other medical sciences
0124	R&D related to agricultural sciences - Agriculture, forestry, fishery, animal and dairy science, veterinary science, agricultural biotechnology, other agricultural sciences
0125	R&D related to social sciences - Psychology, economics and business, educational sciences, sociology, law, political sciences, economic and social geography, media and communications, other social sciences
0126	R&D related to humanities - History and archeology, languages and literature, philosophy, religion and ethics, art (fine arts, history of arts, applied arts, music, performing arts) and other humanities
013	General advancement of knowledge: R&D financed from other sources than GUF
0131	R&D related to natural sciences - Mathematics, computer and information science, physics, chemistry, biology, earth and environmental sciences, other natural sciences
0132	R&D related to engineering sciences - Civil engineering (bridges, roads, machinery,), electrical engineering, electronic engineering, information engineering, mechanical engineering, chemical engineering, technology, medical engineering, environmental engineering, biotechnology, nano-technology, other technologies.
0133	R&D related to medical sciences
	- General medicine, clinical medicine, medical biotechnology and other medical sciences
0134	R&D related to agricultural sciences - Agriculture, forestry, fishery, animal and dairy science, veterinary science, agricultural biotechnology, other agricultural sciences
0135	R&D related to social sciences - Psychology, economics and business, educational sciences, sociology, law, political sciences, economic and social geography, media and communications, other social sciences
0136	R&D related to humanities - History and archeology, languages and literature, philosophy, religion and ethics, art (fine arts, history of arts, applied arts, music, performing arts) and other humanities
014	Defence



Republic of Serbia Statistical Office of the Republic of Serbia

MANUAL

for filling in the questionnaire for "Annual Report on R&D" for: business entities and centres of excellence, faculties, R&D institutes and non-profit organisations/associations.

(Forms: IR-1, IR-2, IR-3).

Manual

for filling in "Annual report on R&D for: business entities and centres of excellence, faculties, R&D institutes and non-profit organisations - associations. (Forms IR-1, IR-2 and IR-3).

The objective of this manual is to make easier the filling in of the questionnaire as well as to improve the quality of the latter. The questionnaires are to be completed for all institutions and/or entities having at least one full-time researcher, scientist or engineer (annual FTE) engaged in R&D.

The manual explains gradually each part of the questionnaire and presents through examples how the questionnaire should be completed properly.

As an example of a properly filled in questionnaire, shown below is a tertiary education institution that belongs to University (as a reporting unit). The data displayed in the mentioned examples are arbitrary and serve only as a demonstration.

Forms IR-1, IR-2, and IR-3 are completely identical, in terms of design and content.

First page of the questionnaire / form IR

The questionnaire refers to the measurement of entries in R&D: R&D employees and IR expenditure. R&D employees are classified by educational level, titles, age and sex, expressed as the real number of persons and full-time equivalent (FTE). R&D expenditure presents generally so-called internal expenditure, i.e. expenditure on R&D within a reporting unit or sector which the unit belongs to. Encompassed are expenditure and investments in order to obtain the obtain information about who finances and who is conduct R&D. As the result of R&D, shown are also scientific works, projects and studies.

The first page of the IR questionnaire (1, 2 and 3) contains information on the name, registration number, address, activity and field of science of the reporting unit. The main difference between R&D activity and activities that are not R&D is in the presence or absence of elements of novelty or innovations to a larger extent. If an activity improves significantly technical characteristics, components and materials, software, user-oriented or other characteristics, i.e. uses a new or considerably advanced products, process or service, as well as new organizational methods in business and labour organization, one should include it in this survey.

The code of the corresponding activity is to be copied from the annexed Classification of Activities 2010 which is transmitted to the reporting unit along with the R&D questionnaire/form. Also, the code of the field of science is to be indicated on the basis of the Classification of Fields of Science being also annexed.

Table number 1

The first table to be filled in is on page two of the questionnaire bearing number 1 and entitled: "Full-time and part-time employees engaged in R&D, expressed in number of physical persons and full-time equivalent (FTE) (in 201 .)"

		Total nun		nployees e &D	ngaged in		of full-time	Number of part-time employees engaged in R&D activities					
		Numb emplo		Full-time	equivalent		activities		nber of loyees	Full-time equivalent			
		All (5+7)	Women (6+8)	All (5 +9)	Women (6+10)	All	Women	All	Women	All	Women		
	а	1	2	3	4	5	6	7	8	9	10		
01	Total (02+14+18+19+20)	54	29	32,5	18,5	11	8	43	21	21,5	10,5		
02	Researchers - total (03												
	to 13)	52	28	31,5	18	11	8	41	20	20,5	10		
03	Researcher apprentice	4	3	4	3	4	3						
04	Assistance researcher	5	4	5	4	5	4						
05	Scientific assistant	1	1	0,5	0,5	0	0	1	1	0,5	0,5		
06	Senior scientific assistant												
07	Senior adviser	2	1	2	1	2	1						
80	Senior lecturer	6	4	3	2			6	4	3	2		
09	Associate professor	8	4	4	2			8	4	4	2		
10	Full professor	17	7	11	5			17	7	11	5		
11	Professor of applied studies												
12	Lecturer												
13	Assistant lecturer	9	4	2	0,5			9	4	2	0,5		
14	Assistant researcher - total (15 to17)	2	1	1	0,5			2	1	1	0,5		
15	Assistant researcher	2	1	1	0,5			2	1	1	0,5		
16	Senior assistant researcher												
17	Assistant adviser												
18	Technicians												
19	Managers		_										
20	Other personnel (support)												

Table 1 should contain the total number of employees engaged in R&D activities full-time or part-time, by title, sex, and number of physical persons and full-time equivalent (FTE).

One should indicate in the table the number of employees being engaged in R&D, and the sum of full-time and part-time employees.

For part-time employees one should indicate the real amount of time spent on R&D activities in relation to full-time employees. The unit of measure for the data in question is full-time equivalent. The original name in English is Full-time Equivalent, abbreviated FTE. The abbreviation FTE will be used throughout the manual for Full-time Equivalent.

In concrete terms, our example shows that there are 43 employees being part-time engaged in R&D (the data is indicated in column 7 in table 1) and only 21.5 are engaged FTE. This means that their real contribution to R&D is 21.5 full-time employees being engaged in R&D.

Full-time equivalent (FTE) is the unit of measure of employees that makes possible the comparability of employees even if they work different hours of work during the week/year.

The employee working full-time is to be counted as one (1) full-time equivalent or abbreviated FTE = 1. The employee who does not work full-time is assigned a proportional value in relation to her/his hours

worked. For example: an employee not working full-time, but 20 hours a week, has FTE of 0.5 because full-time implies 40 hours of work per week. Numerically shown: $20/40 = 0.5^{1}$

The data relative to full-time equivalent, in columns 3, 4, 9 and 10, are shown in decimal numbers with one decimal.

Also, the page of the IR form with table 1 on it contains additional instructions for indicating data in columns 3, 4, 9 and 10 about full-time equivalent.

The second example shows that there are 54 employees being engaged in R&D activities. Among those 54 persons 29 are women. Full-time equivalent for the total number of employees is 32.5, of which 18.5 is FTE for women.

Titles under numbers from 03 to 13 in the category "researchers – total" are to be added up, which in the example amounts to 52 employees, of which 28 women. The full-time equivalent for this category is the summation value 31.5 FTE, of which the value of 18 FTE accounts for women.

Employees bearing the title assistant researcher are to be indicated in row 15 in the table. In our example, there are two employees, of which one is a woman. As the data concerning those persons are indicated in columns 7 and 8, which refer to part-time employees, it is evident from the example that both of them are engaged part-time in R&D activities. The two persons have an FTE of 1, of which 0.5 FTE accounts for the woman. The two assistant researchers work are engaged only part-time in R&D activities during the year.

As rows 16 and 17 concerning senior assistant researcher and assistant adviser are blank, the value in row 14 "Assistant researcher – total" is 2 employees with full-time equivalent 1.

At the end of table 1, one should add up the values under "Researchers - total ", "Assistant researchers", "Technicians", "Managers" and "Other personnel (support)". Considering that, except for categories "Researcher - total (02)" and "Assistant researcher - total "(14), there are no data in the other categories, one should add up the values of the cited items and obtain the sum in the first row (01) "Total": 54 employees, of which 29 women, the full-time equivalent of the former being 32.5, and of the latter 18.5.

Also, the sum of columns 5 and 7 should equal the data from column 1, and the sum of columns 6 and 8 should equal the data from column 2.

Explanations from the Frascati Manual, OECD international standard used as a methodological basis in the R&D survey, are provided to better understand this table.

"There are three stages in evaluating R&D employees:

- Identification of the types of employees to be evaluated,
- Establishing their number,
- Establishing their activity in FTE,

Full-time equivalent (FTE) can be shown as:

Researcher/year

One FTE researcher can be presented also as researcher/year. Therefore, for persons who spend 30% of their time in R&D activities and the rest of it in other activities (teachers, university administration...) FTE should be 0.3. Similarly, if a FTE employee is engaged in a R&D institution for a six month period, the FTE will be 0.5. Knowing that the working hours vary between sectors, as well as between institutions, it is impossible to express FTE as researcher/hours.

¹http://epp.eurostat.ec.europa.eu/statistics_explained/index.php/Glossary:Full-time_equivalent

FTE at a specific date

In some cases it is more practical to express the FTE of R&D employees at a specific date. However, if there are considerable variations, it is necessary to make exceptions in order to secure comparability with FTE over a period of time. If fixed date approach is used, it is necessary to provide data for the first or for the last date which the expenditure refers to. The use of a two year average is recommended for comparison of expenditure data. Theoretically, FTE is determined for all engaged R&D personnel.

In practice, all the persons who participate with more than 90% of time should be counted as 1 FTE, while those who are engaged with less than 10% should be excluded from the evaluation. "²

Table 2

In table 2 entitled: "Employees engaged in R&D activities on service contract (SC) or author contract (AC), expressed in physical number of persons and full-time equivalent (FTE), in 201_" one should indicate the number of employees being engaged in R&D activities on service contract or author contract by titles/occupation.

		Employee		ed on SC a	and AC in		time oyees	Part-time employees engaged on SC and AC in R&D activities					
		Number of employees		Full-time equivalent		engaged on SC and AC in R&D activities		Number of employees			-time /alent		
		All (5+7)	Women (6+8)	All (5+9)	Women (6+10)	All	Women	All	Women	All	Women		
	а	1	2	3	4	5	6	7	8	9	10		
01	All (02 to 06)	1	1	0,3	0,3			1	1	0,3	0,3		
02	Researchers	1	1	0,3	0,3			1	1	0,3	0,3		
03	Assistant researchers												
04 Technicians													
05 Managers													
06	Other personnel (support)												

Table 2 follows the same principle as in table 1, except that certain categories of occupation are not broken down by types of titles that belong to a related category of occupation.

Our example shows one employee who was engaged as researcher on service contract and was actually involved in R&D activities during 85 working days. It is worth knowing that one calendar year has on average 252 working days when calculating FTE. The aforesaid is used to determine the full-time equivalent:

85/252 = 0.34.

As FTE is expressed with one decimal, the obtained quotient 0.34 is rounded to 0.3, which is at the same time the FTE of the activities performed in R&D by the employee.

Also, the sum of columns 5 and 7 should equal the data from column 1, and the sum of columns 6 and 8 should equal the data from column 2.

² Frascati manual, Belgrade, Organisation for Economic Co-operation and Development, 2000, p. 58-62

In table 3 entitled: "Full-time and part-time employees engaged in R&D activities, by educational attainment, expressed in physical number of persons (in 201_) "one should indicate the number of employees by title and educational level. Read the remark below table 3: The table is to be filled in as follows: in columns 1 and 2, copy the values from columns 1 and 2 of table 1, and then proceed with entering the data. Also, the sum of odd columns should equal the data from column 1, and the sum of even column should equal the data from column 2.

Also, the sum of odd columns should equal the data from column 1, and the sum of even columns should equal the data from column 2.

				Educational level											
		Total		Doctor's degree		Master's degree		Specialisation		University education		Applied education		Secondary and other education	
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14
01	Total (02 to 06)	54	29	36	18	4	2			14	9				
02	Researcher	52	28	34	17	4	2			14	9	Х	Х	Х	Х
03	Assistant researcher	2	1	2	1									Х	х
04	Technician														
05	Manager													Х	Х
06	Other personnel (support)														

In table 4 entitled: "Employees engaged in R&D activities on service contract (SC), author contract (AC), by educational level expressed in number of physical persons, in 201_" one should indicate the total number of employees who were engaged on the mentioned contract, by occupation and educational level.

					Educational level												
		Total		Doctor's degree		Master's degree		Specialisation			ersity ation	Applied education		Secondary and other education			
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women		
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
01	Total																
	(02 to 06)	1	1	1	1												
02	Researcher	1	1	1	1							Х	Х	Х	Х		
03	Assistant researcher													х	х		
04	Technician																
05	Manager													Х	Х		
06	Other personnel (support)																

The example shows that one female employee, was engaged on R&D activities on service contract. The mentioned person is a researcher (title) and holds a doctoral degree (educational level).

The table is to be filled in as follows: copy into columns 1 and 2 of this table the values of columns 1 and 2 of table 2, then continue with entering other data.

Also, the sum of odd columns should equal the data from column 1, and the sum of even columns should equal the data from column 2.

Table 5

In table 5 entitled: "Full-time and part-time employees engaged in R&D activities, by educational level, expressed in full-time equivalent (in 201_) "one should indicate data expressed in full-time equivalent, by title and educational level.

The table is to be filled in as follows: copy into columns 1 and 2 of this table the values from columns 3 and 4 of table 1, then continue with entering other data.

Also, the sum of odd columns should equal the data from column 1, and the sum of even columns should equal the data from column 2.

	Total				Educational level											
	All				Doctoral degree				Doctoral degree				Doctoral degree			
All		Women		All	Wo- men	All	Wo- men	All	Wo- men	All	Wo- men	All	Wo- men	All	Wo- men	
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
01	Total (02 to 06)	32,5	18,5	21,5	11	4	2			7	5,5					
02	Researcher	31,5	18	20,5	10,5	4	2			7	5,5	Х	Х	Х	Х	
03	Assistant researcher	1	0,5	1	0,5									Х	Х	
04	Technician															
05	Manager	·												Х	Х	
06	Other personnel (support)															

Having in mind the aforesaid remarks, when filling in the tables, one should first copy FTE from columns 3 and 4 of table 1 into columns 1 and 2 of table 5. Once the total FTE of 32.5 copied into column 1 and FTE of 18.5 into column 2 of table 5, one should copy from the same columns of table 1 the values relative to the titles researcher and assistant researcher into table 5. The data for researchers are FTE of 31.5 and 18 and FTE of 1 and 0.5 for assistant researchers. Then these values should be broken down into educational levels.

Table 6

In table 6 entitled: "Employees engaged in R&D activities on service contract (SC) or author contract (AC), by educational level, expressed in full-time equivalent, (in 201_)" one should indicate the full-time equivalent by title and educational level for employees engaged on R&D activities on service contract or author contract.

									Education	nal level					
		Total				_	Master's degree		Specialisation		University education		plied cation	Secondary and other education	
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14
01	Total (02 to 06)	0,3	0,3	0,3	0,3										
02	Researcher	0,3	0,3	0,3	0,3							Х	Х	Х	Х
03	Assistant researcher													х	Х
04	Technician														
05	Manager													Х	Х
06	Other personnel (support)														

In table 4 the example shows that one female person is engaged on R&D activities on service contract and that this person is a researcher (title) holding a doctoral degree (educational level). The in table 2 one can notice that the FTE is 0.3 in relation to full-time. Therefore, the value 0.3 is to be copied in corresponding boxes in table 6.

The value 0.3 can be the result of work, where the researcher in question is engaged 2.5 hours in R&D activities, or 12 hours a week or about 30% of the working hours on annual level.

Table 7

In table 7 entitled: "Full-time and part-time employees engaged in R&D activities, by age and sex, expressed in number of physical persons, (in 201_)" one should cover the number of employees engaged in R&D activities by titles and age groups.

			Resea	rcher		Assistant researcher				Techi	nician			Manager			
			l-time oloyee	Part-time employee		Full-time employee		Part-time employee		-	I-time oloyee	Part-time employee			I-time oloyee		t-time oloyee
		All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women
	а	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
01	Total (02 to 12)	11	8	41	20			2	1								
02	Less than 25	1	1														
03	25 – 29	6	4	4	1												
04	30 – 34	2	2	9	4												
05	35 – 39			8	4			1	1								
06	40 – 44			4	4												
07	45 – 49			4	2												
80	50 – 54	1	1	3													
09	55 – 59			1				1									
10	60 – 64			8	5												
11	65 – 69	1															
12	70 and over																

In the columns of table 7 employees categories are broken down by titles then the categories are divided into subcategories: *full-time employees and part-time employees*. The rows show age groups where employees should be indicated by age in given intervals. At the end, each row in the column should be added up for all the titles in order to obtain "*Total (02 to 12)* "under the ordinal number 01. Other (support) personnel are not to be classified by age.

The data in this table should equal the data presented in table 1, as follows:

Full-time employees:

- Researchers: row 02, columns: 05, 06

- Assistant researchers: row 14, columns: 05, 06

Technicians: row 18, columns: 05, 06Managers: row 19, columns: 05, 06

Part-time employees:

- Researchers: row 02, columns: 07, 08

- Assistant researchers: row 14, columns: 07, 08

Technicians: row 18, columns: 07, 08Managers: row 19, columns: 07, 08

Table 8

In table 8 entitled: "Full-time and part-time researchers, by citizenship and age, expressed in number of physical persons "one should indicate the number of researchers by citizenship (geographical position of a country). It is essential to emphasize with this table that the number in question refers to the **number of researchers**, not to the total number of employees. These data are particularly important to monitor the **mobility of researchers**.

(by	Citizenship geographical position of the country)			Researchers who came in Serbia in 2014			ers who went I in 2014	Planned number of researchers for 2015
		Total	Women	Total	Women	Total	Women	
	а	1	2	3	4	5	6	7
01	Total (02 to 09)	52	28	1	1			55
02	Serbia	52	28					
03	EU member countries							
04	Other European countries							
05	North America							
06	Central and South America							
07	Asia							
80	Africa							
09	Other							

In columns 3 and 4 one should indicate all the researchers who came from abroad and were engaged in R&D more than 3 months between 01/01/201(4)-31/12/201(4).

In columns 5 and 6 one should indicate all the researchers who left Serbia between 01/01/2014-31/12/2014.

Data in row 01 in columns 1 and 2 of this table should **equal the data in table 1 in columns 1 and 2**, as follows:

Researchers – all and researchers – women (row 02).

Table 9

In table 9 entitled: "Expenditure for R&D activities in 201_ (in thous. RSD) "one should indicate all funds spent on R&D activity in 201_, as well as those planned for the following year.

		E	xpenditures for R&D	Spent in 2014	Planned for 2015						
			а	1	2						
01	Total	expenditure for R&D	(02+07+12)	39307							
02			All (03+05+06)	32785							
03		Labour costs and	Gross salaries and wages for all R&D employees	32785							
04		employees' remunerations	Of which gross salaries and wages of researchers	31690							
05	Current costs	Other personal income of R&D employees (scholarships, prizes, etc.)									
06		Other									
07			All (08 to 11)	5989							
08	Cur	Other current costs	Other current costs	Other current costs	Other current costs	Other current costs	Other current costs	Other current costs	For material costs for R&D work (raw materials, equipment, energy)	2369	
09									For payments based on service contracts and author contracts	609	
10			For daily allowances, travel costs, etc.	1100							
11			Other operating costs and expenses (without depreciation)	1911							
12			All (13+14+16+17+18)	533							
13			For land and buildings								
14			For machinery and equipment	533							
15	Investment costs		Of which for imported machinery and equipment	65							
16			For patent, licenses, studies and projects								
17			For software and hardware 1)								
18			Other								

In this table spent funds are grouped in two main categories: one refers to current costs, and the second to investment costs. The current costs are further broken down in subcategories named "labour costs and employees' remunerations" and "other current costs". The categories and subcategories in question are further broken down in classes of costs. The subcategory "of which gross salaries and wages of researchers "is not counted in the sum of ALL (row 02) because it is part of gross salaries of all R&D employees.

Labour costs of R&D personnel represent the largest item of current costs. Other current costs include costs in materials and equipment necessary for R&D over a year. Additional costs and administrative costs are to be counted in this group of costs, but with the deduction of costs of activities other than R&D. Labour costs comprise social and pension contributions for R&D personnel. Costs of indirect services are also to be included, whether originating from the same reporting units or not (costs of storage, repair, maintenance of premises, printing of reports, etc.).

Investment costs are total annual costs of immovables used for R&D for the reporting unit. They are to be reported for the period they have incurred and do not comprise depreciation. They are made of: costs for land and buildings, instruments and equipment. Costs for land and buildings: land refers to land necessary for R&D work (land for testing, laboratories and pilot installations) and for buildings destined to be improved, modified and repaired. The part of these costs being difficult to determine, estimation method is used. The subcategory "of which: for imported machines and equipment " under investment costs is not to be counted in the sum of investment costs (ALL, row 12) as it represents the part of total investments into machines and equipment.

By indicating data under corresponding classes of costs in the example, one can see the purpose of expenditures. The funds are expressed in **thousands dinars**.

Table 10

In table 10 entitled: "Sources of funds spend on R&D activity in 201_"one should indicate the sources of financing R&D.

		Sc	urces of funds	Amount in thousands RSD
			а	1
01	Funds	spent for R&D by sources -	total (02 to 21)	39307
02			From the Ministry of Science	37315
03		Planned budgetary funds dedicated to R&D	From the Ministry of Education	
04	erbia		From other ministries	
05	J Se	Funds for R&D from other g	overnment funds, agencies and foundations	
06	(froi	Funds for R&D from local a	uthorities' bodies	202
07	ding		from "small" (0 - 49 employees)	
08	Funds for R&D from other Funds for R&D from local Funds for R&D from local Funds for R&D from enterprises Funds for R&D from enterprises		from "medium" (50 - 249 employees)	
09			from "large" (250 and more employees)	
10)ome	Funds for R&D from non-pre	ofit organizations	
11		Funds from patents, license	s, etc. (from inward sale)	
12		Other funds for R&D from o	wn sources	
13		Funds from agreements on	technological licenses	
14		Funds from services for fore	eign ordering parties	1567
15	ad	Funds from joint investment	in R&D	
16	Funds from abroad	Funds for R&D from other of	ountries' governments	
17	шо	Funds for R&D from the uni	versity and other tertiary education institutions	
18	ds fi	Funds for R&D from non-pro	ofit organizations	
19	Fun	Funds for R&D from the Eu	opean Commission	
20		Funds for R&D from interna	tional organizations	223
21		Other		

The data in row 01 should equal the data in table 9, in row 1, column 1 (*total expenditure for R&D*). The amounts are to be indicated in thousands of dinars.

The sources are divided into two categories: the first category refer to domestic funding and the second to funding from abroad.

Within categories there are subcategories of funding. Under domestic funding (from the Republic of Serbia), several sources are proposed (ministries, funds, agencies) grouped under "budgetary funds dedicated to R&D" and "funds for R&D from enterprises". In row 12 indicated are funds from own sources spent on R&D activity. The amounts of total funds as well as budgetary funds (rows 01 to 06) are further broken down in table 12.

The example show funds for R&D from the Ministry of Science and a minor part from local authorities, as well as funds received from international organisations.

In table 11 entitled: "Value of R&D works (projects and studies), by fields of science and types of research (including also projects funded from own resources – in thous. RSD), 201_"one should indicate the amount of funds spent on R&D, broken down by types of research and fields of science.

	Fields of science	Total		Types of researc	:h
	Fields of science	Total	Basic	Applied	Development
	а	1	2	3	4
01	All	39307	37 739		1568
02	Natural sciences, mathematics	39307	37 739		1568
03	Engineering and technology				
04	Social sciences				
05	Humanities				
06	Medical sciences				
07	Agricultural sciences				
08	Multidisciplinary sciences				

For ongoing projects (not completed), one should indicate the value of finishing stages of works up to 201_. It is important to stress out that the data in column "Total" should equal the data in column "Total" in table 12. Also, it should be identical to the data indicated in table 9 under ordinal number 1 "Total expenditure for R&D in 201"

Use the annexed classification to determine the type of research a work belongs to.

- **BASIC RESEARCH** is a creative, systematic activity focused on acquiring new knowledge on the origin and causes of phenomena and facts, without any particular application or use in view. The results of a basic research are often formulated as general principles, theories or rules.
- APPLIED RESEARCH is undertaken whether to establish a possibility to use the results of a
 research, having in mind its practical application, or to find new methods or ways that facilitate the
 achievement of a particular objective set in advance. This survey starts from existing knowledge
 and examines it thoroughly in view of solving specific issues.
- **DEVELOPMENT RESEARCH** is a creative systematic activity based on the results of the basic and applied research, and practical knowledge directed towards introducing new materials, products, devices, processes and methods.

The main difference between the R&D activity and activities other than R&D is the presence or absence of elements of novelty or innovation to a greater extent. If an activity introduces significant improvement in technical characteristics, components and materials, software, user-orientation or other functional characteristics, i.e. uses a new or considerably improved product, process or service, as well as new organizational methods in business and work organization should be included in this survey.

The example above show the total funds invested in natural sciences and mathematics. A minor amount is invested in R&D, and more than 95% in basic researches.

In table 12 entitle: "Funds for R&D by primary socio-economic objectives, 201_ (in thous. RSD) "should indicate the total funds spent by primary socio-economic objectives and the amount of budgetary funds.

	Primary socio-economic objectives	Total	Of which budgetary funds
	а	1	2
01	All (02+03+04+05+06+07+08+09+10+11+12+13+20+27)	39307	37315
02	Exploration and exploitation of the Earth		
03	Environment		
04	Exploration and exploitation of space		
05	Transport, telecommunications and other infrastructure		
06	Production and rational utilization or energy		
07	Industrial production and technology		
80	Health		
09	Agriculture		
10	Education		
11	Culture, recreation, religion and mass media		
12	Political and social systems, structures and processes		
13	General advancement of knowledge:- R&D financed from General University Funds (total 14 to 19):	39307	37315
14	R&D related to natural sciences, mathematics	39307	37315
15	R&D related to engineering sciences		
16	R&D related to medical sciences		
17	R&D related to agricultural sciences		
18	R&D related to social sciences		
19	R&D related to humanities		
20	General advancement of knowledge:- R&D financed from other sources than GUF (total 21 to 26):		
21	R&D related to natural sciences, mathematics		
22	R&D related to engineering sciences		
23	R&D related to medical sciences		
24	R&D related to agricultural sciences		
25	R&D related to social sciences		
26	R&D related to humanities		
27	Defence		

The amounts of funds are distributed in 13 categories. The category "General advancement of knowledge "is divided in two groups. The first group: **R&D financed from general university funds**, is then broken down in fields of science. The specified category of funds represents the amount of resources from university funds, financed from public sources.

The second group: **R&D financed from other sources than GUF** show the amount of funds spent on R&D from other sources, other than public.

In the example above the total amount of funds for financing R&D has been invested in general advancement of knowledge ". Knowing the fact that the reporting unit is a faculty within the University, and that the funds are budgetary funds), "General advancement of knowledge: R&D financed from general university funds are to be indicated in the category under ordinal number 13.

The data in the first row of column 2 of table 12 should equal the sum of the data under ordinal numbers 02 to 06 in table 10, budgetary funds for R&D.

Also, it is important that the total funds for/from R&D by primary socio-economic objectives under ordinal number 01 "All" in table 12 equal to the values specified in table 10 in row 01 "All".

In table 13 entitled: "Number of R&D works/projects and studies), by fields of science and type of research (to include also projects financed from own funds), 201_"one should indicate the number of R&D works by field of science and type of research.

With this table, one should make sure that the indicated number of researches is entered under headings relative to their financial value in table 11.

	Fields of science	Total	Types of research				
	1 10100 01 00101100	10141	Basic	Applied	Development		
	а	1	2	3	4		
01	All (02 to 08)	7	5		2		
02	Natural sciences, mathematics	7	5		2		
03	Engineering and technology						
04	Social sciences						
05	Humanities						
06	Medical sciences						
07	Agricultural sciences						
80	Multidisciplinary sciences						

This example shows seven works which belong to the field of science: natural sciences, mathematics. Five works belong to basic researches and two to development researches. By comparing tables 13 and 11 it is obvious that the tables match because the number of works in table 13 is indicated under the same headings as in table 11 relative to their value.

It is particularly important to check that the row "All" in table 13 matches the row "All" in table 14.

Table 14

In table 14 entitled: "Number of R&D works by ordering party and type of research, 201_"one should indicate the works by ordering party. The ordering party may be from Serbia or from abroad.

				R&D	works	
		Ordering party	Total (2 to 4)	Basic	Applied	Development
		а	1	2	3	4
01	AII (02-	+09)	7	5		2
02		Inward – all (03 to 08)	5	5		
03	from	For own account				
04	_	Enterprises in Serbia				
05	ng party Serbia	Ministry of Science	4	4		
06	Ordering	Ministry of Education				
07	Ö	Other ministries				
80		Other	1	1		
09		Outward – all (10 to 16)	2			2
10	from	Enterprises	1			1
11		Other countries' governments				
12	party	Non-profit organisations				
13	ing party abroad	Tertiary education institutions				
14	Ordering	European Commission				
15	ŏ	International organisations	1			1
16		Other				

The example shows that out of seven works, five are ordered from Serbia, and two from abroad. The number in row 01 "All" is distributed according to the type of works.

In table 15 entitled: "Published R&D articles and monographies, 201_" the reporting units are required to indicate the number of R&D works published in publications, whether own, someone else's in Serbia or abroad. Every published work is to be counted only once, whatever the type of publication and times it has been published.

	Total	Published in publications						
	Total	Own	Someone else's in Serbia	Abroad				
	1	2	3	4				
01	141		62	79				

Table 16

In table 16 entitled: "Inventions and patents, 201_ , one should indicated the number of inventions, number of pending patents in the Patent Office and registered patents in the Intellectual Property Office, number of inventions / patents sold in the country and abroad, as well as the number of inventions and patents being used for the first time in practice. The listed categories are further distributed according to R&D intensity.

			Pat	ents	Patents – in	ventions sold	
R&D intensity		Tested inventions	Pending patents in the Patent Office Patent Office Patent Office		In Serbia	Abroad	First-time practical use of patents and inventions
	а	1	2	3	4	5	6
01	Total (02 to 05)		4				
02	High technology						
03	Medium high technology		4				
04	Medium low technology						
05	Low technology						

High R&D intensity ("high technology") would largely correspond to R&D costs/sale above 4%;

Medium R&D intensity ("medium technology") is R&D costs/sale ranging from 1 to 45 and **Low R&D intensity** ("low technology") is R&D costs/sale below 1%.

According to the Law of Patents, a patent is the right which is recognized as an invention from any technical domain, which is new, has an inventive level and is applicable in industry. This is a subjective right that belongs to a physical or legal person provided the fulfilment of material and formal conditions stipulated by the law. An invention being protected by patent may be a product, procedure, use of a product or procedure applicability.

Small patent is any patent that is new, applicable in industry and has a lower level than the inventive one, but that surpasses routine technical use by professionals.

In table 16a entitled: "Small inventions and patents, 201_" one should indicate the number of small tested inventions and patents according to the same principle as in the previous table 16.

			Small	patents	Small patent	5 1	
	R&D intensity	Small tested inventions	Pending patents in the Patent Office	Patents registered in the Patent Office	In Serbia	Abroad	First-time practical use of small patents and inventions
	а	1	2	3	4	5	6
01	Total (02 to 05)						
02	High technology						
03	Medium high technology						
04	Medium low technology						
05	Low technology						

The example shows that there four patents pending in the Patent Office (table 16), that they belong to medium high R&D intensity. Further, the reporting does not have pending, registered or sold small patents and small inventions (table 16a).

At the end of the questionnaire one should indicate the date of data entry in the questionnaire, the interviewer's name and surname, contact telephone and electronic mail, as well as the name and surname of the manager of the reporting unit.

For more information please contact the Statistical Office of the Republic of Serbia in Belgrade, at: ++ 381 (0)11 2412 922, extension 425 or 357

Annex: - Classification of Fields of Science

- Classification of Primary Socio-economic Objectives
- Classification of Activities CA-2010

Statistical bulletin – Research and Development Activity in the Republic of Serbia, 2015

Prepared by: Sunčica Šestić, Jasmina Krstić and Tatjana Zarić

EDITORIAL BOARD

Chief editor: Miroslav Janković

Members: Selena Marković, Tatjana Savić, Jasmina Kostić Simov, Jelena Milaković, Sonja Radoičić

Translated by: Vesna Aralica

Technical editors: Dragana Steljić