

First Release

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DOCTORS OF SCIENCE, 2022

According to the data of the Croatian Bureau of Statistics, a total of 792 persons obtained their degree of doctors of science in 2022. The share of women in that number amounted to 416, that is, 52.5%.

More women than men among doctors of science

Out of the total of 792 doctors of science, 67.6% of them obtained their degree at the University of Zagreb, 11.1% at the University of Osijek, 8.1% (each) at the University of Split and at the University of Rijeka, 4.0% at the University of Zadar, 0.8% at the University North, Koprivnica, 0.2% at the Catholic University of Croatia, Zagreb, and 0.1% at the University of Slavonski Brod.

The highest share of female doctors of science obtained their degree at the University North, Koprivnica, 83.3%, followed by the University of Osijek, 58.0%, the University of Split, 54.7%, the University of Zadar, 46.9%, and the University of Rijeka, 43.8%. There were no female doctors of science at the University of Slavonski Brod.

Biomedicine and health - the most often chosen field of doctoral dissertations

The majority of doctoral dissertations in 2022 were defended in the field of Biomedicine and health (22.8%), followed by the field of Engineering (20.9%), Natural sciences (17.4%), Social sciences (17.0%), Humanities (11.5%) and Biotechnical sciences (8.8%). The smallest number of doctoral dissertations were defended in Interdisciplinary fields of science (1.6%).

There were 7.8% of doctors of science who have already obtained a master's degree.

The largest number of doctors of science in the 30 to 34 age group

Regarding age, the largest number of all doctors of science was classified in the 30 – 34 age group (35.6%). There were 15.2% of doctors of science in the up-to-29 age group, 17.7% of doctors of science in the 35 – 39 age group, 12.6% in the 40 – 44 age group, 9.7% in the 45 – 49 age group and 9.2% in the 50-and-over age group.

The largest number of doctors of science employed in Education

The largest number of doctors of science were employed in the following activities: 52.4% in Education, 14.9% in Professional, scientific and technical activities, 14.8% in Human health and social welfare, and 5.1% in Public administration and defence; compulsory social security. There were 11.7% of doctors of science employed in other activities, while 1.1% of them were unemployed.

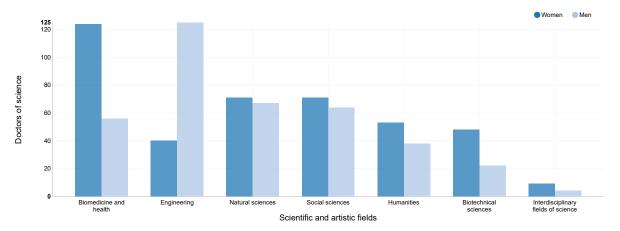
The costs of studies mostly paid by employers

Regarding the costs of postgraduate university studies leading to a doctoral degree, 48.5% of them were paid by employers, 34.6% by doctors of science themselves, the costs for 13.1% of doctors of science were allocated from the State Budget, while the costs of 3.8% of doctors of science belonged to the category Other.

1 DOCTORS OF SCIENCE, BY UNIVERSITIES WHERE THEY OBTAINED DOCTOR'S DEGREE, SCIENTIFIC AND ARTISTIC FIELD OF DOCTORAL DISSERTATION AND SEX, 2022

	Т	otal	Scientific and artistic field of doctoral dissertation									
	All	Women	Natural sciences	Engineering	Biomedicine and health	Biotechnical sciences	Social sciences	Humanities	Interdisciplinary fields of science			
Total	792	416	138	165	180	70	135	91	13			
University of Osijek	88	51	11	10	24	22	18	3	-			
University of Rijeka	64	28	-	23	17	-	14	5	5			
University North, Koprivnica	6	5	-	-	-	-	6	-	-			
University of Slavonski Brod	1	-	-	1	-	-	-	-	-			
University of Split	64	35	4	9	32	-	10	8	1			
University of Zadar	32	15	-	-	-	-	13	18	1			
University of Zagreb	535	282	123	122	107	48	74	55	6			
Catholic University of Croatia, Zagreb	2	-	-	-	-	-	-	2	-			

G-1 DOCTORS OF SCIENCE, BY SCIENTIFIC AND ARTISTIC FIELD OF DOCTORAL DISSERTATION AND SEX, 2022

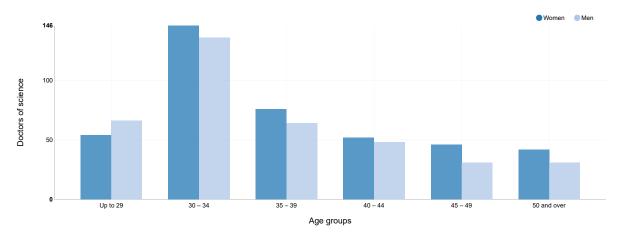


2 DOCTORS OF SCIENCE, BY SCIENTIFIC AND ARTISTIC FIELD OF DOCTORAL DISSERTATION, AGE GROUPS AND SEX, 2022

	Tota	al			Age gro	oups		
	All	Women	Up to 29	30 – 34	35 – 39	40 - 44	45 – 49	50 and over
Total	792	416	120	282	140	100	77	73
Natural sciences	138	71	51	52	16	10	3	6
Mathematics	16	6	6	8	-	-	-	2
Physics	31	6	16	9	5	-	1	-
Geological science	2	1	-	1	-	-	-	1
Chemistry	38	22	17	14	4	2	-	1
Biology	36	27	7	15	4	6	2	2
Geophysics	4	3	-	2	2		-	-
Interdisciplinary natural sciences	11	6	5	3	1	2	-	-
Engineering	165	40	31	77	24	12	6	15
Naval architecture	2	1	1	1	-	-	-	-
Electrical engineering	37	7	9	14	6	3	3	2
Architecture and town planning	5	3	-	-	2	-	-	3
Geodesy	5	2	-	4	1	-	-	-
Civil engineering	27	10	3	17	3	3	-	1
Graphic technology	3	2	-	2	-	-	-	1
Chemical engineering	6	3	2	4	-	-	-	-
Computer science	25	2	7	11	3	3	-	1
Mining, petroleum and geological engineering	2	-	-	2	-	-	-	-
Mechanical engineering	31	2	7	15	4	2	-	3
Technology of transport and traffic	15	5	1	5	3	1	2	3
Textile technology	1	1	-	-	1	-	-	-
Aeronautics, rocket and space technology	2	-	-	1	-	-	-	1
Basic technical sciences	2	1	1	1	-	-	-	-
Interdisciplinary technical sciences	2	1	-	-	1	-	1	-
Biomedicine and health	180	124	20	54	34	21	30	21
Basic medical sciences	33	21	9	16	5	2	1	-
Clinical medicine	89	57	3	22	22	13	16	13
Public health and health care	8	6	-	3	1	-	2	2
Veterinary medicine	13	12	3	1	1	2	4	2
Dental medicine	17	13	1	5	3	1	3	4
Pharmacy	20	15	4	7	2	3	4	-
Biotechnical sciences	70	48	9	36	8	9	4	4
Agronomy	32	19	4	15	4	5	3	1
Forestry	4	1	1	1	1	1	-	-
Wood technology	1	-	-	1	-	-	-	-
Biotechnology	12	10	2	8	1	1	-	-
Food technology	17	14	2	10	2	2	1	-
Nutrition	3	3	-	1	-	-	-	2
Interdisciplinary biotechnical sciences	1	1	-	-	-	-	-	1
Social sciences	135	71	4	38	31	23	20	19
Economics	47	22	1	16	9	8	5	8
Law	9	5	-	4	2	1	1	1
Political science	5	2	-	1	2	1	-	1
Education and rehabilitation sciences	3	3	1	1	-	1	-	-
Information and communication sciences	20	15	-	3	6	3	5	3
Sociology	4	1	-	2	2	-	-	-
Psychology	4	3	1	1	1	1	-	-
Pedagogy	6	6	-	1	1	2	2	
Kinesiology	20	7	1	5	5	2	4	3
Social work	2	2	-	1	-	1	-	-
Interdisciplinary social sciences	15	5	-	3	3	3	3	3
Humanities	91	53	4	21	25	21	13	7
Philosophy	9	3	2	2	4	1	-	-
Theology	3	-	-	1	1	-	1	-

Linguistics	32	26	-	8	9	8	6	1
History	5	-	1	2	-	1	1	-
History of arts	8	4	-	2	1	3	-	2
Science of arts	3	2	-	-	1	2	-	-
Archaeology	5	1	-	2	2	1	-	-
Ethnology and anthropology	1	1	-	1	-	-	-	-
Religious sciences (interdisciplinary field)	3	1	-	1	-	1	-	1
Interdisciplinary humanities	22	15	1	2	7	4	5	3
Interdisciplinary fields of science	13	9	1	4	2	4	1	1
Geography	1	-	-	1	-	-	-	-
Croatology	2	-	-	1	-	1	-	-
Educational sciences	5	5	-	-	1	2	1	1
Biotechnology in biomedicine	5	4	1	2	1	1	-	-

G-2 DOCTORS OF SCIENCE, BY AGE GROUPS AND SEX, 2022



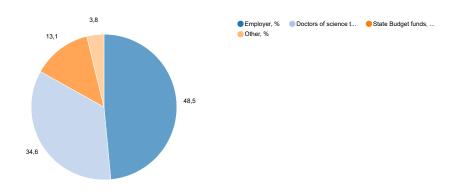
3 DOCTORS OF SCIENCE, BY SCIENTIFIC AND ARTISTIC FIELD OF DOCTORAL DISSERTATION AND MASTER'S THESIS, 2022

Scientific and artistic field of		Scientific and artistic field of doctoral dissertation								
master's thesis	Total	Natural sciences	Engineering	Biomedicine and health	Biotechnical sciences	Social sciences	Humanities	Interdisciplinary fields of science		
Total	792	138	165	180	70	135	91	13		
Natural sciences	5	4	-	1	-	-	-	-		
Engineering	12	-	12	-	-	-	-	-		
Biomedicine and health	12	-	-	12	-	-	-	-		
Biotechnical sciences	2	1	-	-	1	-	-	-		
Social sciences	22	-	1	-	2	18	1	-		
Humanities	7	-	1	-	-	-	6	-		
Artistic field	1	-	-	-	-	-	1	-		
Interdisciplinary fields of science	1	-	-	-	-	-	-	1		
Not obtained master's degree	730	133	151	167	67	117	83	12		

4 DOCTORS OF SCIENCE, BY ACTIVITY OF EMPLOYMENT, BY WAY OF PAYING FOR POSTGRADUATE DOCTORAL STUDY AND BY SEX, 2022

	Tota	al	Way of paying for postgraduate doctoral study					
	All	Women	Employer	State Budget funds	Doctors of science themselves	Other		
Total	792	416	384	104	274	30		
Employees	783	412	384	104	268	27		
Agriculture, forestry and fishing	4	1	-	-	4	-		
Manufacturing	9	5	3	-	6	-		
Electricity, gas, steam and air conditioning supply	6	1	2	-	4	-		
Water supply; sewerage, waste management and remediation activities	1	1	-	-	1	-		
Construction	4	2	2	1	-	1		
Wholesale and retail trade; repair of motor vehicles and motorcycles	9	3	4	1	4	-		
Transportation and storage	3	2	1	-	2	-		
Accommodation and food service activities	1	-	-	-	1	-		
Information and communication	19	5	8	2	8	1		
Financial and insurance activities	6	2	1	-	5	-		
Professional, scientific and technical activities	118	59	65	27	21	5		
Public administration and defence; compulsory social security	40	24	13	2	24	1		
Education	415	216	257	63	81	14		
Human health and social work activities	117	78	21	7	86	3		
Arts, entertainment and recreation	19	11	3	1	13	2		
Other service activities	10	2	4	-	6	-		
Activities of extraterritorial organisations	2	-	-	-	2	-		
Unemployed	9	4	-	-	6	3		

G-3 DOCTORS OF SCIENCE, BY WAY OF PAYING FOR POSTGRADUATE DOCTORAL STUDY, 2022



NOTES ON METHODOLOGY

Sources and methods of data collection

Data are the result of the annual data processing of statistical sheets for doctors of science (ŠV-70 form), which are filled in by doctors of science or doctors of art at obtaining this degree.

Coverage and comparability

The statistical survey covers all schools of higher education in the Republic of Croatia that establish and carry out the postgraduate university study for obtaining a doctoral degree or allow for obtaining a doctoral degree according to the Act on Scientific Activity and Higher Education (NN, Nos 123/03, 198/03, 105/04, 174/04, 02/07, 46/07, 45/09, 63/11, 94/13, 139/13, 101/14, 60/15 and 131/17).

Data are comparable to those from previous years.

Definitions and explanations

Doctor of science is a person who defended a doctoral dissertation.

Institution of higher education is any institution authorised to organise and implement courses of study as well as scientific research, highly professional or artistic work. Institutions of higher education are divided in the following way: university and adjoining faculties and art academies, polytechnic and school of higher education. Institutions of higher education may be public and private.

The postgraduate university study can be enrolled after the completion of a graduate university study.

Postgraduate university study, as a rule, lasts for three years. After fulfilling all conditions and on public defending of a doctoral dissertation, a person obtains an academic degree of the doctor of science (Dr. Sc.) or the doctor of art (Dr. Art) with a reference to the field of study, in line with the Rule Book of Scientific and Artistic Disciplines, Fields and Branches (NN, Nos 118/09, 82/12, 32/13, 34/16 and 56/22).

Abbreviations

NN Narodne novine, official gazette of the Republic of Croatia

Symbols

no occurrence

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Phone: (+385 1) 48 06 111 Press corner: press@dzs.hr

Persons responsible: Dubravka Rogić-Hadžalić, Director of Demographic and Social Statistics Directorate Lidija Brković, Director General

> Prepared by: Josipa Jurić and Danijela Kurjaković

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Information and user requests Phone: (+385 1) 48 06 138, 48 06 154 E-mail: stat.info@dzs.hr

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