

CDH-statistics for Norway

Report on the Norwegian collection of data on the Career of Doctorate Holders 2007-2009

Terje Bruen Olsen

Working paper 5/2011



CDH-statistics for Norway	
Report on the Norwegian collection of data on the Career of Doctorate Holders 2007-2009	
Terje Bruen Olsen	Working paper 5/2011

Working paper

5/2011

Published by Address Nordic Institute for Studies in Innovation, Research and Education

PB 5183 Majorstuen, NO-0302 Oslo. Visiting address: Wergelandsveien 7, 0167 Oslo

www.nifu.no

Preface

This report presents the Norwegian collection of statistics on the Career of Doctorate Holders (CDH) in 2010. This is the second delivery of such statistics. The first was undertaken in 2008, and reported in

Terje Bruen Olsen and Dag W. Aksnes: *CDH-statistics for Norway. Report on the Norwegian collection of data on the Career of Doctoral Holders.* NIFU STEP (undated paper).

The statistical tables on the doctorate holders have been submitted to Eurostat, OECD and UNESCO as an excel workbook, *CDH Output tables – Norway*, set up in accordance with the output tables model workbook.

The data collection on DHs holding their doctorate degree from a Norwegian institution is based upon existing data registers of approximately full coverage. As for DHs awarded abroad the existing data sources have been supplemented by a separate project partly funded by a grant from Eurostat. Even though this report presents the data collection in general, it incorporates the methodological and summary reports required in the grant agreement.

Oslo, 21.07.2011

Susanne L. Sundnes Head of research Terje Bruen Olsen Senior researcher

Content

1	The purpose	
2	Doctorate Holders awarded in Norway	
3	Doctorate Holders awarded abroad	10
4	Methodological report	11
5	Results	13
6	Summary report	14
7	CDH-tables	15
Tah	hles list	Δ!

CDH-statistics for Norway

1 The purpose

The purpose of the project is to update statistics on the careers of doctorate holders (CDH). The target population of doctorate holders (residents in country X) is structured in four categories:

- A. Citizens of country X and the doctorate awarded within country X
- B. Citizens of foreign countries and the doctorate awarded in country X
- C. Citizens of country X and the doctorate awarded abroad
- D. Citizens of foreign countries and the doctorate awarded abroad

The target population does not include doctorate holders 70 years old or older.

The data has been obtained by combining different registers on individuals.

The reference period is 2009 – or 2007-2009 in the three years tables – except for the tables EMP5 and EMP6 where the reference year is 2008. In the PERC1.1 table the reference years are 2002 and 2005.

2 Doctorate Holders awarded in Norway

Statistics on the A/B target population (doctorate awards in Norway) has partly been based upon the Doctoral Degree Register data as such, or upon linked data between the Doctoral Degree Register and the System of Person Data. The quality of the statistics is good, although not complete in respect to all CDH parameters.

The Doctoral Degree register

Data on earned doctoral degrees in Norway are compiled in the Doctoral Degree Register of NIFU, including all doctoral and licentiate awards from all Norwegian institutions through the ages (1817-2010). Awards from non-Norwegian institutions are not included in the register. The data include type of degree (title), at which institution and in which year the degree was awarded, the field of science of the dissertation, the gender and the educational background of the doctor, and his or her citizenship. The data are applied for statistical and scientific purposes only. No data on individuals are published. The register is updated regularly twice a year from information supplied by the awarding institutions.

For the purpose of CDH statistics, data have been retrieved form the Doctoral Degree Register directly, or register data have been linked to the System of Person Data, see below.

The Research Personnel Register

NIFU also manages the Research Personnel Register, which includes academic staff, researchers and higher administrative personnel in the higher education sector and at R&D institutes in the government sector and R&D institutes serving enterprises. Firms and enterprises are not included. The register includes information on gender, age, position, institute, institution, the institution's field of science, education, and – relevant for the CDH statistics – doctoral degree (if earned), distinguishing between awards in Norway and awards abroad. The time span covered by data is 1961-2010. Electronic data are available for the 1977-2010 period. The data are applied for statistical and scientific purposes only. No data on individuals are published. The register has been updated biannually (in the last few years, annually) from information supplied by the institutions.

System of Person Data (SFP)

The System of Person Data of Statistics Norway provides various statistics of all individuals in Norway, of which labour market data, information of salaries, education, citizenship, and demography are the most relevant for the CDH statistics. The SFP is updated annually. As for Norwegian doctorate awards data from the Doctoral Degree register were linked to SFP by Statistics Norway, supplied with relevant data, anonymised, and submitted to NIFU for statistical and analytical purposes. This linking between the registers of NIFU and the registers of Statistics Norway is not a standard regular action, but has

been undertaken ad hoc. Such linking procedures have been carried through three times – the last in 2009-2010.

Survey data

Survey of two doctorate cohorts (2002 and 2005) undertaken by NIFU provides additional information on the labour market situation and career of the respondents, as well as their perception of the relevance of the research training for their job performance, how they experienced teaching and guidance during the doctoral study etc.

3 Doctorate Holders awarded abroad

The only systematic information that is regularly collected on these DHs (categories C and D) concerns those included in the Research Personnel Register, see above. However, this group forms only a part of all DHs awarded abroad, as the register does not cover persons outside the research sector. The business enterprise sector and public institutions other than higher education and research are not included in the register.

In the 2008 data collection a project – partly funded by the EC/Eurostat – was performed to improve and expand the data coverage and data quality on the DHs awarded abroad, contributing to the total Norwegian CDH statistics. The purpose of the project was to collect data on several of the items in the CHD package of output tabulations, including gender, age, citizenship, country of birth, field of doctorate degree, prior education, employment status, sector of employment, year of doctoral award, and country of doctoral award. Prior to the project we have not had any information on these persons.

The data collection project has now been repeated, again partly funded by Eurostat. The data collection has been expanded in order to cover data for more than one reference year.

The specific purpose of the project is twofold:

- To provide additional information on the persons included in the Research Personnel Register with a doctorate awarded abroad; their employment situation, country of birth, etc.
- To provide information on other persons with a doctorate awarded abroad in other words, for the persons affiliated with other institutions and enterprises not included in the Research Personnel Register.

Consequently, two lines of action were taken. Firstly, a file from the Research Personnel Register including persons awarded a doctoral degree abroad were linked to SFP parallel to the procedure followed for Norwegian awards. Secondly, additional persons, whose educational level indicated that they may have completed research training, were retrieved from the SFP. At NIFU the two data sets have been merged, duplicates removed, and the resulting file produced to provide data input for the CDH statistics.

4 Methodological report

As mentioned above the information has been provided through a coupling of NIFU's doctoral data with Statistics Norway's data on the population of Norway (System of Personnel Data) (Categories A and B). In addition Statistics Norway has provided data on doctorate holders awarded abroad (categories C and D), partly by coupling of data from the Research Personnel Register of NIFU, partly from its own registers on the education level of the individual citizens. The Statistic Norway's data on education have different sources: a survey in 1999, information from Norwegian State Educational Loan Fund, information from the Norwegian Directorate of Immigration, and census data.

In the NIFU register on doctoral awards (The Doctoral Degree Register), there are almost 19000 persons with a doctoral degree from Norwegian institutions in the period 1970-2010. Through an additional register (The Research Personnel Register at NIFU) we can identify approximately 2900 persons with a doctoral degree awarded abroad. The last group (termed "Group I") represents persons employed or affiliated with universities, university colleges or research institutes. The data on these persons are however incomplete from a CDH perspective. In addition there are persons with a doctoral degree awarded abroad who are working outside the research system (e.g. in oil-companies and other business enterprises) ("Group II"). The aim has been to prove more information of these two groups of doctors.

For Group I we have identified the relevant persons in the Research Personnel Register and collected missing data on these persons from the System of Personnel Data at Statistics Norway (e.g. citizenship, country of award). For Group II we have relied on data from the latest census in Norway and the other data sources mentioned above, provided by Statistics Norway. Using these data we have identified persons with a doctoral degree who have not already been identified in the present register on doctoral awards in Norway or in the population of Group I doctors. Although this latter approach has limitations, the project has altogether contributed to a more complete Norwegian statistics on doctoral holders.

We identified 2852 persons with a doctorate awarded abroad in one or more of the 2007, 2008 and 2009 versions of the NIFU Research Personnel Register. In addition, Statistics Norway identified 2076 persons with education on doctoral level *not* included in the Research Personnel Register in the same three years.

It should be noted, however, that the quality of the data from the Statistics Norway's additional survey as well as the information from the Norwegian State Educational Loan Fund and the Norwegian Directorate of Immigration is somewhat uncertain. These data are based upon self-reporting, and some persons may not, in fact, have obtained a PhD even if they report to have education on ISCED 6 level.

The persons with doctorate awarded abroad mainly represent two categories of employees:

- Norwegian citizens with their basic higher education from Norway and a PhD obtained in another country, now working in Norway.
- Citizens of foreign countries who have come to Norway after the completion of their PhD, either as immigrants with the intention to become residents of Norway or as guest researchers or other temporary contracts who are likely to leave Norway later.

A basic step for more complete information on the population of doctorate holders was taken in the 2008 project. However, due to inadequate information on DHs awarded abroad, we then estimated an additional number of DHs not covered by data. The estimate was based on general immigration statistics, and assumptions were made about how this additional quantity distributed on the different variables (gender, age etc.)

In the present project such an estimate has not been undertaken. Even if the coverage of awards from abroad has improved in the registers of Statistics Norway, this might indicate that the number of doctoral awards abroad in the data is slightly underestimated. On the other hand, this may be outweighed by the system of self-reporting, see above.

In the 2008 project the numbers in the tables were rounded off to the nearest ten. In the present tables there is no rounding off, and then we have escaped the time consuming exercise to harmonize all the tables accordingly. However, we warn that the tables should not be read as specific and precise as they appear – considering the cautions made above.

5 Results

The CDH tables for Norway are based on the data for the reference years 2007, 2008 and 2009. In 2009 the number of doctorate holders below 70 years old amounted to 18280, of which 14860 were awarded in Norway and 3420 were award abroad. 15490 had Norwegian citizenship and 2790 non-Norwegian citizenship. 34 per cent of the doctorate holders in 2009 were women.

Chapter 7 includes the CDH-tables in which data for Norway have been reported.

We have been able to report the statistics requested in most of the CDH-tables. However, due to the fact that the Norwegian statistics are based on register data rather than survey data, figures are not available for some of the tables; data on perceptions, experiences, future plans, etc. cannot be answered in the case of Norway.

6 Summary report

NIFU has carried out a project (partly funded by a grant from Eurostat) for updating the statistics on DHs awarded abroad. The first project of this sort (also partly funded by a grant from The European Commission/Eurostat) was carried out in 2007-2008. The present project has, in addition to updated statistics, contributed to improved quality and coverage of the Norwegian CDH-statistics.

The project has also contributed to a better fundament and knowledge for analyses of the PhD population nationally. The CDH data and CDH statistics are increasingly useful for analyses and studies at NIFU. In particular the improved data will be important to serve policy makers who are interested in planning the needs for future research education and for researchers making analyses of the dynamics of the research system.

The project has in addition improved the quality of the statistics reported for Norway for the CDH-database of OECD, UNESCO and Eurostat.

Data on DHs awarded in Norway are collected by NIFU regularly (twice a year), following well-functioning procedures and routines established through many years. In respect to DHs awarded abroad we are, however, dependent on the capacity of the Statistics Norway to collect and link such data. Still, the project has further contributed to a better basis for providing data about persons with a doctorate awarded abroad.

7 CDH-tables

P 1 Doctorate Holders in 2007, 2008 and 2009 by Sex and Age class.

					•				
		2007			2008			2009	
Age cohort	Men	Women	Total	Men	Women	Total	Men	Women	Total
Less than 35 years old	1 081	600	1 681	1 157	689	1 846	1 213	729	1 942
35-44 years old	3 270	1 907	5 177	3 407	2 084	5 491	3 480	2 270	5 750
45-54 years old	3 503	1 643	5 146	3 615	1 789	5 404	3 735	1 912	5 647
55-64 years old	2 574	804	3 378	2 760	926	3 686	2 833	1 056	3 889
65-69 years old	676	143	819	718	176	894	842	207	1 049
Total	11 104	5 097	16 201	11 657	5 664	17 321	12 103	6 174	18 277

Source of data: Register data, NIFU and Statistics Norway.

P 2.1 Doctorate Holders in 2009 by Type of Citizenship and Place of Birth.

		Citizenship	
Place of Birth	Norwegian	Foreign ¹⁾	Of which in a EU country
Native	13 997	49	33
Foreign born	1 496	2 735	1 837
Total	15 493	2 784	1 870

Source of data: Register data, NIFU and Statistics Norway.

P 2.2 Doctorate Holders in 2007, 2008 and 2009 by Citizenship.

	(Total	
••••	Norwegian	Foreign	Unknown	
2007				
Total	13 758	2 434	9	16 201
Of which: ISCO2311)	5 334	735	0	6 069
2008				
Total	14 686	2 616	19	17 321
Of which: ISCO2311)	5 476	787	0	6 263
2009				
Total	15 493	2 771	13	18 277
Of which: ISCO2311)	5 821	876	0	6 697

¹⁾ Incl. 13 with unknown citizenship.

¹⁾ College, University and Higher Education teaching professionals.

P 3 Doctorate Holders in 2007, 2008 and 2009 by Sex and Country of Citizenship.

		2007			2008			2009	
	Men	Wo-	Total	Men	Wo-	Total	Men	Wo-	Total
		men			men			men	
Total	11 104		16 201	11 657		17 321	12 103	•••••	18 277
Citizens of Norway	9 499	4 259	13 758	9 947	4 739	14 686	10 323	5 170	15 493
Foreign citizens of Norway	1 596	837	2 433	1 691	921	2 612	1 766	1 002	2 768
Unknown country of citizenship	9	1	10	19	4	23	14	2	16
Region of citizenship:									
Total European Union	1 094	592	1 686	1 144	646	1 790	1 176	694	1 870
Total OECD	10 830	4 971	15 801	11 334	5 506	16 840	11 745	5 993	17 738
Total non OECD	265	125	390	304	154	458	343	179	522
Total Africa	53	14	67	54	22	76	58	16	74
Total America	200	118	318	203	115	318	208	125	333
Total North America	178	108	286	180	107	287	183	116	299
Total Central and South America	22	10	32	23	8	31	25	9	34
Total Asia	137	56	193	172	66	238	196	86	282
Total Europe	10 689	4 903	15 592	11 193	5 450	16 643	11 611	5 938	17 549
Total Oceania	16	5	21	16	7	23	15	7	22
Country of citizenship:									
Afghanistan	2		2	2		2	2		2
Albania							1	1	2
Argentina	2	2	4	2	2	4	2	2	4
Armenia	1		1	1		1			
Austria	15	10	25	17	10	27	17	11	28
Australia	11	5	16	11	5	16	10	5	15
Azerbaijan	1		1	1		1	1		1
Bangladesh	6	1	7	7		7	8		8
Belarus		2	2		2	2		2	2
Belgium	20	10	30	19	12	31	19	12	31
Bolivia	1		1						
Bosnia & Herzegovina					1	1		1	1
Botswana	1		1	1		1	1		1
Brasil	6	5	11	5	4	9	5	4	9
Bulgaria	3	5	8	2	4	6	3	4	7
Burma (Myanmar)				_			1		1
Cameroon	1		1	1		1	2	1	3
Canada	24	20	44	25	20	45	29	24	53
Chile	6	2	8	7	1	8	7	1	8
China	44	28	72	57	33	90	57	41	98
Colombia		1	1	1	1	2	2	1	3
Costa Rica	1		1	1		1	2		2
Croatia	4		4	6		6	7		7
	-	1	1	0	1	1	1	1	2
Cyprus	8	6	14	8	8	16	8	9	17
Czech Republic	1	0	1	1	0	10	0	9	17
Cuba		89	229		04		454	00	249
Denmark	140	09		148	91	239 3	151	98	
Egypt	2		2	2	1	3	4	1	5
El Salvador							1		1
Eritrea	4	_	4	4	_	4	4	_	4
Estonia	1	2	3	1	5	6	1	6	7
Ethiopia	14	3	17	16	2	18	13	1	14
Finland	26	37	63	24	40	64	23	45	68

Table P3 continued

					2008			2009		
	Men	Wo-	Total	Men	Wo-	Total	Men	Wo-	Total	
		men			men	400		men		
France	59	38	97	66	36	102	71	40	111	
Gambia	224	404	405		400		1	450	1	
Germany	284	121	405	303	138	441	310	150	460	
Ghana	7	2	9	8	2		7		7	
Greece	3	8	11	3	8	11	4	8	12	
Guatemala	1		1	1		1	1		1	
Hungary	6	6	12	8	8	16	8	8	16	
Iceland	24	13	37	27	15	42	27	16	43	
India	30	6	36	40	8	48	41	9	50	
Indonesia	2		2	4	_	4	5		5	
Iran	16	1	17	21	3	24	27	4	31	
Iraq	5	1	6	6	2	8	7	3	10	
Ireland	13	4	17	13	5	18	13	5	18	
Israel	5	2	7	7	2	9	9	2	11	
Italy	25	24	49	25	27	52	29	28	57	
Japan	1	5	6	1	5	6	1	5	6	
Jordan	2	1	3		1	1	1	1	2	
Kazakhstan								1	1	
Kenya	1		1	2	1	3	3	1	4	
Korea, South	2	1	3	1	1	2	3	2		
Latvia	3	3	6	3	3	6	3	3	6	
Lebanon							1		1	
Lithuania	2	11	13	2	10	12	2	11	13	
Luxembourg				1		1				
Madagascar	1		1	1		1	1		1	
Malawi	1		1	2	1	3				
Malaysia							3	1	4	
Malta		1	1		1	1		1	1	
Mexico	5	2	7	5	2	7	3	1	4	
Moldova		1	1							
Morocco	2	1	3	2	1	3	2	1	3	
Mosambique					1	1				
Namibia								1	1	
Nepal	6		6	8		8	7		7	
Netherlands	76	33	109	77	37	114	77	37	114	
New Zealand	5		5	5	2	7	5	2	7	
Nicaragua	1		1	1		1	1		1	
Nigeria	2		2	2		2	4		4	
Norway	9 499	4 259	13 758	9 947	4 739	14 686	10 323	5 170	15 493	
Pakistan	3		3	4		4	6	1	7	
Panama								1	1	
Peru	2		2	3		3	3		3	
Philippines		1	1				1		1	
Poland	11	12	23	13	15	28	15	16	31	
Portugal	3	3	6	3	4	7	6	4	10	
Romania	5	8	13	7	10	17	10	12	22	
Russian Federation	43	21	64	45	29	74	47	35	82	
Serbia and Montenegro	2	3	5	2	7		4	8	12	

Table P3 continued

		2007			2008			2009	
	Men	Wo-	Total	Men	Wo-	Total	Men	Wo-	Total
		men			men			men	
Singapore	1	1	2		1	1		1	1
Slovak Republic	2	2	4	1	4	5	1	4	5
Slovenia		1	1		1	1		2	2
Somalia		1	1		1	1		1	1
South Africa	2	2	4	3	2	5	3	1	4
Spain	10	17	27	12	18	30	14	20	34
Sri Lanka	4	2	6	5	2	7	5	2	7
Sudan	5	1	6	4	1	5	3	1	4
Sweden	202	92	294	199	101	300	206	104	310
Switzerland	14	11	25	15	11	26	17	11	28
Taiwan								1	1
Tajikistan				1		1	1		1
Tanzania	3		3	3	5	8	5	1	6
Thailand	1	4	5	1	5	6	2	6	8
Turkey	4	2	6	3	1	4	3	1	4
Uganda	2	1	3	1	2	3	3	4	7
Ukraine	5		5	4		4	7		7
United Kingdom	177	48	225	189	49	238	184	55	239
United States	149	86	235	150	85	235	151	91	242
Uzbekistan	1		1	1		1	1		1
Venezuela	1		1	1		1	1		1
Viet Nam	3	1	4	3	2	5	5	5	10
Yemen	1		1	1		1	1		1
Zambia	2	1	3	1	1	2	1	1	2
Zimbabwe	3	2	5	1	1	2	1	1	2
Unknown country of citizenship	9	1	10	19	4	23	14	2	16

P 4 Doctorate Holders in 2007, 2008 and 2009 by Citizenship and Age class.

	C		Total	
Year/age cohort	Norwegian	Foreign	Unknown	
2007	_			
Less than 35 years old	1 352	326	3	1 681
35-44 years old	4 352	821	4	5 177
45-54 years old	4 365	780	1	5 146
55-64 years old	2 949	428	1	3 378
65-69 years old	740	79	0	819
Total	13 758	2 434	9	16 201
2008				
Less than 35 years old	1 465	377	4	1 846
35-44 years old	4 625	859	7	5 491
45-54 years old	4 567	832	5	5 404
55-64 years old	3 213	472	1	3 686
65-69 years old	816	76	2	894
Total	14 686	2 616	19	17 321
2009				
Less than 35 years old	1 512	428	2	1 942
35-44 years old	4 856	890	4	5 750
45-54 years old	4 785	857	5	5 647
55-64 years old	3 393	495	1	3 889
65-69 years old	947	101	1	1 049
Total	15 493	2 771	13	18 277

P 5a Doctorate Holders in 2007 by Citizenship and Field of Doctorate Degree.

		C	itizenship)	Total
		Norwegian	Foreign	Unknown	
Total		13 758	2 434	9	16 201
1	Natural sciences	3 341	566	1	3 908
1.1 [Mathematics	313	17		330
1.2 (Computer and information sciences (excluding				
	hardware development and social aspect)	249	26		275
1.3 F	Physical sciences	458	40		498
1.4 (Chemical sciences	609	39		648
1.5 F	Earth and environmental sciences	395	64		459
1.6 F	Biological sciences (excluding medical and				
	agricultural sciences)	1 079	95		1 174
1.7	Other natural sciences	18	2		20
I	Unspecified natural sciences	220	283	1	504
2 1	Engineering and technology	2 312	301		2 613
3	Medical and health sciences	3 051	502	2	3 555
4 /	Agricultural sciences	777	103		880
4.3	Veterinary science	259	21		280
l	Unspecified agricultural sciences	518	82		600
5	Social sciences	2 253	328	2	2 583
5.1 F	Psychology	276	18		294
5.2 F	Economics and business	436	20		456
5.3 F	Educational sciences	233	7		240
5.4	Sociology	252	10		262
5.5 l	Law	154	9		163
5.6 F	Political science	188	4		192
5.7	Social and economic geography	54	3		57
5.8 1	Media and communications	53	4		57
5.9 (Other social sciences	324	22		346
l	Unspecified social sciences	283	231	2	516
6 1	Humanities	1 283	305		1 588
6.1 H	History and Archaeology	251	15		266
6.2 I	Languages and literature	351	40		391
6.3 F	Philosophy, ethics and religion	280	10		290
6.4	Arts (arts, history of arts, performing arts, music)	165	14		179
6.5	Other humanities	66	3		69
	Unspecified humanities	170	223		393
	Unspecified field of doctorate degree	741	329	4	1 074

^{5.9} includes mainly Social Anthropology/Ethnography

P 5b Doctorate Holders in 2008 by Citizenship and Field of Doctorate Degree.

	•				
		C	itizenship)	Total
		Norwegian	Foreign	Unknown	
Tota	al	14 686	2 616	19	17 321
1	Natural sciences	3 507	641	3	4 151
1.1	Mathematics	336	21		357
1.2	Computer and information sciences (excluding				
	hardware development and social aspect)	279	37		316
1.3	Physical sciences	486	46		532
1.4	Chemical sciences	627	46		673
1.5	Earth and environmental sciences	408	70		478
1.6	Biological sciences (excluding medical and				
	agricultural sciences)	1 135	111		1 246
1.7	Other natural sciences	18	2		20
	Unspecified natural sciences	218	308	3	529
2	Engineering and technology	2 412	340		2 752
3	Medical and health sciences	3 282	526	4	3 812
4	Agricultural sciences	821	113		934
4.3	Veterinary science	277	21		298
	Unspecified agricultural sciences	544	92		636
5	Social sciences	2 476	368	2	2 846
5.1	Psychology	307	20		327
5.2	Economics and business	472	31		503
5.3	Educational sciences	256	9		265
5.4	Sociology	285	11		296
5.5	Law	175	11		186
5.6	Political science	203	4		207
5.7	Social and economic geography	61	5		66
5.8	Media and communications	61	6		67
5.9	Other social sciences	364	35		399
	Unspecified social sciences	292	236	2	530
6	Humanities	1 395	323		1 718
6.1	History and Archaeology	274	17		291
6.2	Languages and literature	377	46		423
6.3	Philosophy, ethics and religion	303	10		313
6.4	Arts (arts, history of arts, performing arts, music)	180	17		197
6.5	Other humanities	75	4		79
	Unspecified humanities	186	229		415
	Unspecified field of doctorate degree	793	305	10	1 108
_					

^{5.9} includes mainly Social Anthropology/Ethnography

P 5c Doctorate Holders in 2009 by Citizenship and Field of Doctorate Degree.

		Citizenship		Total	
		Norwegian	Foreign	Unknown	
Tota	ıl	15 493	2 771	13	18 277
1	Natural sciences	3 660	721		4 381
1.1	Mathematics	357	29		386
1.2	Computer and information sciences (excluding				
	hardware development and social aspect)	309	39		348
1.3	Physical sciences	507	63		570
1.4	Chemical sciences	644	54		698
1.5	Earth and environmental sciences	423	73		496
1.6	Biological sciences (excluding medical and				
	agricultural sciences)	1 176	129		1 305
1.7	Other natural sciences	18	2		20
	Unspecified natural sciences	226	332		558
2	Engineering and technology	2 489	368		2 857
3	Medical and health sciences	3 502	558	5	4 065
	Agricultural sciences	851	102	1	954
4.3	Veterinary science	290	22		312
	Unspecified agricultural sciences	561	80	1	642
5	Social sciences	2 684	385	1	3 070
5.1	Psychology	339	22		361
5.2	Economics and business	495	36		531
5.3	Educational sciences	286	12		298
5.4	Sociology	303	11		314
5.5	Law	198	10		208
5.6	Political science	224	4		228
5.7	Social and economic geography	67	6		73
5.8	Media and communications	73	8		81
5.9	Other social sciences	394	34		428
	Unspecified social sciences	305	242	1	548
6	Humanities	1 464	332		1 796
6.1	History and Archaeology	278	19		297
6.2	Languages and literature	399	53		452
6.3	Philosophy, ethics and religion	319	11		330
6.4	Arts (arts, history of arts, performing arts, music)	194	21		215
6.5	Other humanities	78	5		83
	Unspecified humanities	196	223		419
	Unspecified field of doctorate degree	843	305	6	1 154

^{5.9} includes mainly Social Anthropology/Ethnography

P 6 Doctorate Holders in 2007, 2008 and 2009 by Sex and Country of Birth.

P 6 Doctorate Holders in	,	2007		,	2008			2009	
	Men	Wo-	Total	Men	Wo-	Total	Men	Wo-	Total
		men			men			men	
Total	11 104	5 097	16 201	11 657	5 664	17 321	12 103	6 174	18 277
Born in Norway	8 704	3 775	12 479	9 120	4 208	13 328	9 444	4 602	14 046
Foreign born	2 400	1 322	3 722	2 537	1 456	3 993	2 659	1 572	4 231
Region of birth:									
Total European Union	1 312	771	2 083	1 359	838	2 197	1 404	895	2 299
Total OECD	10 335	4 717	15 052	10 810	5 231	16 041	11 181	5 692	16 873
Total non OECD	769	380	1 149	847	433	1 280	922	482	1 404
Total Africa	165	32	197	178	43	221	188	46	234
Total America	284	187	471	291	193	484	302	209	511
Total North America	234	146	380	237	154	391	242	167	409
Total Central and South America	50	41	91	54	39	93	60	42	102
Total Asia	462	209	671	514	234	748	564	264	828
Total Europe	10 176	4 666	14 842	10 655	5 189	15 844	11 031	5 650	16 681
Total Oceania	17	3	20	19	5	24	18	5	23
Country of birth:									
Afghanistan	6		6	6		6	6		6
Albania							1	2	3
Algerie	4	3	7	4	3	7	4	3	7
Angola	1		1	1		1	2		2
Argentina	7	5	12	7	5	12	7	5	12
Armenia	2		2	2		2	2		2
Aruba	1		1	1		1	1		1
Austria	19	12	31	19	13	32	20	14	34
Australia	13	3	16	14	4	18	14	4	18
Azerbaijan	3		3	3		3	3		3
Bahrain		1	1		1	1		1	1
Bangladesh	11	1	12	12	1	13	14	1	15
Belarus	1	3	4	2	3	5	2	3	5
Belgium	23	11	34	21	13	34	21	13	34
Bolivia	2		2	1		1	1		1
Bosnia & Herzegovina	7	9	16	9	14	23	10	14	24
Botswana	1		1	1		1	1		1
Brasil	10	9	19	10	7	17	10	7	17
Bulgaria	5	10	15	5	9	14	6	9	15
Burma (Myanmar)	1		1	1		1	2		2
Cameroon	2	1	3	2	1	3	4	1	5
Canada	23	18	41	23	20	43	26	23	49
Chile	16	12	28	17	12	29	18	12	30
China	97	52	149	114	60	174	116	71	187
Colombia	2	6	8	4	6	10	5	6	11
Costa Rica	1		1	1		1	2		2
Côte d'Ivoire	2		2	2		2	2		2
Cuba	1		1	1		1	1		1
Croatia	6	3	9	8	3	11	10	3	13
Cyprus	2	2	4	2	2	4	3	2	5
Czech Republic	17	8	25	17	9	26	17	9	26
Denmark	161	103	264	168	106	274	171	112	283
Dominican Republic		2	2		2	2		2	2
Ecuador		1	1		1	1		1	1
Egypt	10	2	12	10	3	13	12	3	15

Table P6 continued

***		2007			2008			2009	
	Men	Wo-	Total	Men	Wo-	Total	Men	Wo-	Tota
		men			men			men	
El Salvador							1		1
Eritrea	16		16	15		15	16		16
Estonia	1	3	4	1	6	7	1	7	8
Ethiopia	20	5	25	28	4	32	25	5	30
Finland	30	43	73	28	47	75	28	52	80
Former Yugoslav Republic of Macedonia	1	2	3	2	3	5	2	4	6
France	65	44	109	71	42	113	76	47	123
Gambia	1		1	1		1	2		2
Georgia	1		1	1		1	1		1
Germany	319	157	476	340	176	516	356	195	551
Ghana	16	2	18	17	2	19	17	3	20
Greece	8	10	18	8	10	18	9	10	19
Guatemala	2		2	2		2	2	1	3
Honduras	1		1	1		1	1		1
Hong Kong	2	5	7	2	4	6	2	5	7
Hungary	15	9	24	15	12	27	17	11	28
Iceland	24	12	36	27	15	42	26	16	42
India	65	21	86	77	24	101	81	27	108
Indonesia	7	1	8	8		8	9		9
Iran	95	21	116	101	26	127	117	29	146
Iraq	34	6	40	35	6	41	36	7	43
Ireland	11	3	14	11	4	15	11	4	15
Israel	8	1	9	10	1	11	12	2	14
Italy	29	28	57	29	32	61	35	33	68
Japan	7	9	16	8	9	17	8	9	17
Jordan	4	1	5	2	1	3	2	1	3
Kazakhstan		1	1	1	1	2	1	3	4
Kenya	5		5	7	1	8	8	1	9
Korea, North							1		1
Korea, South	9	13	22	9	17	26	10	17	27
Kosovo	3	1	4	4	1	5	5	2	7
Kuwait	2		2	2		2	2		2
Kyrgyzstan		1	1		1	1	1	1	2
Latvia	5	3	8	6	4	10	6	3	9
Lebanon	4		4	4		4	6		6
Libya		1	1		1	1		1	1
Lithuania	3	14	17	3	14	17	3	15	18
Luxembourg	1		1	2		2	1		1
Macao					1	1		1	1
Madagascar	5	1	6	5	1	6	5	1	6
Malawi	1		1	2	1	3			
Malaysia		2	2		2	2	3	3	6
Maldives		1	1		1	1		1	1
Mali	1		1	1		1	1		1
Malta		1	1		1	1		1	1
Mauritius	3	1	4	3	1	4	2	1	3
Mexico	7	4	11	7	4	11	6	4	10
Moldova		1	1						

Table P6 continued

		2007			2008			2009	
	Men	Wo-	Total	Men	Wo-	Total	Men	Wo-	Tota
Montenegro	1	men	1	1	men	1	1	men	
Morocco	12	2	14	14	2	16	14	2	1
Mozambique	1		1	2	1	3	2	1	
Namibia	1		1	1		1	1	1	
Venal	7		7	9		9	8		
Netherlands	77	32	109	80	37	117	80	37	11
New Zealand	4	02	4	5	1	6	4	1	
Nicaragua	1	2	3	1	2	3	1	2	
Nigeria	11	_	11	12	-	12	14	2	1
Norway	8 704	3 775	12 479	9 120	4 208	13 328	9 444	4 602	
Palestinian state	8	3113	8	15	1	16	17	7 002	1 1 1
Pakistan	20	10	30	23	10	33	27	12	3
Panama	20	10	30	25	10	33	21	1	
Peru	4	2	6	6	2	8	7	1	
Philippines	2	19	21	1	20	21	2	21	2
Poland	54	51	105	59	56	115	62	57	11
Portugal	4	3	7	3	3	6	5	3	
Romania	15	18	33	17	20	37	20	26	4
Russian Federation	69	58	127	71	69	140	72	74	14
Saudi Arabia	1	30	1	1	03	140	12	14	- 17
Serbia	3	6	9	4	10	14	5	9	1
Sierra Leone	1	0	1	1	10	1	1	3	
Singapore	3	5	8	2	5	7	2	4	
Slovak Republic	6	4	10	5	7	12	5	7	1
Slovenia	0	2	2	3	2	2		3	
Somalia	6	2	8	6	2	8	7	2	
South Africa	11	3	14	12	4	16	12	5	1
	11	19	30	12	21	33	14	23	3
Spain Sri Lanka	22	11	33	23	11	34	25	11	3
Sudan	8	1	9	9	2	11	10	2	1
Sweden	240	119	359	236	127	363	239	131	37
	17	15	32	19	14	33	19	14	3
Switzerland Syria	6	3	9	6	3	9	7	3	1
Syria Faiwan	1	3	1	1	3	1	2	1	
raiwan Fajikistan	1		1	2		2	2	'	
Tajikistan Tanzania	4	1	5	5	6	11	7	2	
	6	13	19	6	15	21	7	16	2
Thailand Frinidad & Tobago	0	13	19	0	15	21	,	16	4
Trinidad & Tobago Tunisia	5		5	5		5	4	1	
Turkey	17	8	25	18	0		18	0	
•	6	1	25 7	18	8 2	26		9	2
Jganda Jkraine		4	17	13	5	6 18	6 15		1
	13	4	17	13			15	5	2
United Arab Emirates	404		252	204	1	1	400	1	
United Kingdom	191	62	253	201	65	266	198	71	26
United States	204	124	328	207	130		210	140	35
Jruguay	1	2	3	1	2	3	1	2	

Table P6 continued

		2007			2008			2009	
	Men	Wo-	Total	Men	Wo-	Total	Men	Wo-	Total
		men			men			men	
Uzbekistan	1		1	1		1	1	1	2
Venezuela	1		1	1		1	2		2
Vietnam	23	9	32	23	10	33	25	13	38
Yemen	1		1	1		1	1		1
Zambia	3	1	4	2	1	3	2	1	3
Zimbabwe	7	5	12	5	5	10	5	5	10

P 7 Doctorate Holders in 2007, 2008 and 2009 by Place of birth and Age class.

Year/age cohort	Born in Norway	Foreign born	Total
2007	•		
Less than 35 years old	1 275	406	1 681
35-44 years old	3 966	1 211	5 177
45-54 years old	3 879	1 267	5 146
55-64 years old	2 672	706	3 378
65-69 years old	687	132	819
Total	12 479	3 722	16 201
2008			
Less than 35 years old	1 392	454	1 846
35-44 years old	4 218	1 273	5 491
45-54 years old	4 056	1 348	5 404
55-64 years old	2 912	774	3 686
65-69 years old	750	144	894
Total	13 328	3 993	17 321
2009			
Less than 35 years old	1 440	502	1 942
35-44 years old	4 435	1 315	5 750
45-54 years old	4 242	1 405	5 647
55-64 years old	3 071	818	3 889
65-69 years old	858	191	1 049
Total	14 046	4 231	18 277

P 8a Doctorate Holders in 2007 by Place of Birth and Field of Doctorate Degree.

		Born in Norway	Foreign born	Total
Tota	al	12 479	3 722	16 201
1	Natural sciences	3 130	778	3 908
1.1	Mathematics	293	37	330
1.2	Computer and information sciences (excluding			
	hardware development and social aspect)	231	44	275
1.3	Physical sciences	426	72	498
1.4	Chemical sciences	578	70	648
1.5	Earth and environmental sciences	377	82	459
1.6	Biological sciences (excluding medical and			
	agricultural sciences)	1 023	151	1 174
1.7	Other natural sciences	17	3	20
	Unspecified natural sciences	185	319	504
2	Engineering and technology	2 145	468	2 613
3	Medical and health sciences	2 749	806	3 555
4	Agricultural sciences	720	160	880
4.3	Veterinary science	247	33	280
	Unspecified agricultural sciences	473	127	600
5	Social sciences	2 051	532	2 583
5.1	Psychology	262	32	294
5.2	Economics and business	417	39	456
5.3	Educational sciences	221	19	240
5.4	Sociology	243	19	262
5.5	Law	146	17	163
5.6	Political science	176	16	192
5.7	Social and economic geography	52	5	57
5.8	Media and communications	49	8	57
5.9	Other social sciences	298	48	346
	Unspecified social sciences	187	329	516
6	Humanities	1 145	443	1 588
6.1	History and Archaeology	244	22	266
6.2	Languages and literature	322	69	391
6.3	Philosophy, ethics and religion	264	26	290
6.4	Arts (arts, history of arts, performing arts, music) 160	19	179
6.5	Other humanities	63	6	69
	Unspecified humanities	92	301	393
	Unspecified field of doctorate degree	539	535	1 074

^{5.9} includes mainly Social Anthropology/Ethnography

P 8b Doctorate Holders in 2008 by Place of Birth and Field of Doctorate Degree.

		Born in Norway	Foreign born	Total
Tota	ıl	13 328	3 993	17 321
1	Natural sciences	3 289	862	4 151
1.1	Mathematics	315	42	357
1.2	Computer and information sciences (excluding			
	hardware development and social aspect)	261	55	316
1.3	Physical sciences	452	80	532
1.4	Chemical sciences	593	80	673
1.5	Earth and environmental sciences	389	89	478
1.6	Biological sciences (excluding medical and			
	agricultural sciences)	1 077	169	1 246
1.7	Other natural sciences	17	3	20
	Unspecified natural sciences	185	344	529
2	Engineering and technology	2 235	517	2 752
3	Medical and health sciences	2 949	863	3 812
4	Agricultural sciences	763	171	934
4.3	Veterinary science	265	33	298
	Unspecified agricultural sciences	498	138	636
5	Social sciences	2 271	575	2 846
5.1	Psychology	292	35	327
5.2	Economics and business	452	51	503
5.3	Educational sciences	242	23	265
5.4	Sociology	275	21	296
5.5	Law	167	19	186
5.6	Political science	190	17	207
5.7	Social and economic geography	59	7	66
5.8	Media and communications	57	10	67
5.9	Other social sciences	336	63	399
	Unspecified social sciences	201	329	530
6	Humanities	1 246	472	1 718
6.1	History and Archaeology	264	27	291
6.2	Languages and literature	347	76	423
6.3	Philosophy, ethics and religion	284	29	313
6.4	Arts (arts, history of arts, performing arts, music) 175	22	197
6.5	Other humanities	72		79
	Unspecified humanities	104	311	415
	Unspecified field of doctorate degree	575	533	1 108

^{5.9} includes mainly Social Anthropology/Ethnography

P 8c Doctorate Holders in 2009 by Place of Birth and Field of Doctorate Degree.

Total 14 046 4 231 18 277 1 Natural sciences 3 425 956 4 381 1.1 Mathematics 335 51 386 1.2 Computer and information sciences (excluding hardware development and social aspect) 286 62 348 1.3 Physical sciences 472 98 570 1.4 Chemical sciences 606 92 698 1.5 Earth and environmental sciences 405 91 496 1.6 Biological sciences (excluding medical and agricultural sciences) 115 190 1 305 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 055 4 Agricultural sciences 274 38 312 Unspecified agricultural sciences 243 3 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39			Born in Norway	Foreign born	Total
1.1 Mathematics 335 51 386 1.2 Computer and information sciences (excluding hardware development and social aspect) 286 62 348 1.3 Physical sciences 472 98 570 1.4 Chemical sciences 606 92 698 1.5 Earth and environmental sciences 405 91 496 1.6 Biological sciences (excluding medical and agricultural sciences) 1115 190 1 305 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270<	Tota	al	14 046	4 231	18 277
1.2 Computer and information sciences (excluding hardware development and social aspect) 286 62 348 1.3 Physical sciences 472 98 570 1.4 Chemical sciences 606 92 698 1.5 Earth and environmental sciences 405 91 496 1.6 Biological sciences (excluding medical and agricultural sciences) 1115 190 1 305 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational science 270 28 298 5.4 Sociology 291 <td>1</td> <td>Natural sciences</td> <td>3 425</td> <td>956</td> <td>4 381</td>	1	Natural sciences	3 425	956	4 381
hardware development and social aspect) 286 62 348 1.3 Physical sciences 472 98 570 1.4 Chemical sciences 606 92 698 1.5 Earth and environmental sciences 405 91 496 1.6 Biological sciences (excluding medical and agricultural sciences 17 3 20 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineening and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298	1.1	Mathematics	335	51	386
1.3 Physical sciences 472 98 570 1.4 Chemical sciences 606 92 698 1.5 Earth and environmental sciences 405 91 496 1.6 Biological sciences (excluding medical and agricultural sciences) 1 1115 190 1 305 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Politi	1.2	Computer and information sciences (excluding			
1.4 Chemical sciences 606 92 698 1.5 Earth and environmental sciences 405 91 496 1.6 Biological sciences (excluding medical and agricultural sciences) 1 1115 190 1 305 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social		hardware development and social aspect)	286	62	348
1.5 Earth and environmental sciences 405 91 496 1.6 Biological sciences (excluding medical and agricultural sciences) 1 1115 190 1 305 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5	1.3	Physical sciences	472	98	570
1.6 Biological sciences (excluding medical and agricultural sciences) 1 1115 190 1 305 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other s	1.4	Chemical sciences	606	92	698
agricultural sciences) 1 115 190 1 305 1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68	1.5	Earth and environmental sciences	405	91	496
1.7 Other natural sciences 17 3 20 Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 364 <td< td=""><td>1.6</td><td>Biological sciences (excluding medical and</td><td></td><td></td><td></td></td<>	1.6	Biological sciences (excluding medical and			
Unspecified natural sciences 189 369 558 2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 1313		agricultural sciences)	1 115	190	1 305
2 Engineering and technology 2 291 566 2 857 3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 <td>1.7</td> <td>Other natural sciences</td> <td>17</td> <td>3</td> <td>20</td>	1.7	Other natural sciences	17	3	20
3 Medical and health sciences 3 149 916 4 065 4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 <td></td> <td>Unspecified natural sciences</td> <td>189</td> <td>369</td> <td>558</td>		Unspecified natural sciences	189	369	558
4 Agricultural sciences 784 170 954 4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1<	2	Engineering and technology	2 291	566	2 857
4.3 Veterinary science 274 38 312 Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) <	3	Medical and health sciences	3 149	916	4 065
Unspecified agricultural sciences 510 132 642 5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music)	4	Agricultural sciences	784	170	954
5 Social sciences 2 463 607 3 070 5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 <	4.3	Veterinary science	274	38	312
5.1 Psychology 322 39 361 5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113		Unspecified agricultural sciences	510	132	642
5.2 Economics and business 471 60 531 5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5	Social sciences	2 463	607	3 070
5.3 Educational sciences 270 28 298 5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.1	Psychology	322	39	361
5.4 Sociology 291 23 314 5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.2	Economics and business	471	60	531
5.5 Law 190 18 208 5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.3	Educational sciences	270	28	298
5.6 Political science 210 18 228 5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.4	Sociology	291	23	314
5.7 Social and economic geography 65 8 73 5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.5	Law	190	18	208
5.8 Media and communications 68 13 81 5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.6	Political science	210	18	228
5.9 Other social sciences 364 64 428 Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.7	Social and economic geography	65	8	73
Unspecified social sciences 212 336 548 6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.8	Media and communications	68	13	81
6 Humanities 1 313 483 1 796 6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	5.9	Other social sciences	364	64	428
6.1 History and Archaeology 268 29 297 6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419		Unspecified social sciences	212	336	548
6.2 Languages and literature 368 84 452 6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	6	Humanities	1 313	483	1 796
6.3 Philosophy, ethics and religion 300 30 330 6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	6.1	History and Archaeology	268	29	297
6.4 Arts (arts, history of arts, performing arts, music) 189 26 215 6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	6.2	Languages and literature	368	84	452
6.5 Other humanities 75 8 83 Unspecified humanities 113 306 419	6.3	Philosophy, ethics and religion	300	30	330
Unspecified humanities 113 306 419	6.4	Arts (arts, history of arts, performing arts, music) 189	26	215
	6.5	Other humanities	75	8	83
Unspecified field of doctorate degree 621 533 1 154		Unspecified humanities	113	306	419
		Unspecified field of doctorate degree	621	533	1 154

Note: Categories for which data can not be specified, are excluded from the table.

ED 1 Doctorate Holders in 2009 by Citizenship and Region of Doctoral Award.

	•			
		Citizenship		Total
Region of Doctoral Award	Norwegian	Foreign	Unknown	
Total	15 493	2 768	16	18 277
Doctorate degree received in Norway	13 625	1 231	3	14 859
Doctorate degree received in a foreign country	1 868	1 537	13	3 418

^{5.9} includes mainly Social Anthropology/Ethnography

ED 2 Doctorate Holders in 2009 by Place of Birth and Region of Doctoral Award.

	Place o	Total	
Region of Doctoral Award	Born in Norway	Foreign born	
Total	14 046	4 231	18 277
Doctorate degree received in Norway	12 788	2 071	14 859
Doctorate degree received in a foreign country	1 258	2 160	3 418

ED 3 Doctorate Holders in 2009 by Country of Doctoral Award and of Prior Education.

	Place of doctoral of	degree award	Total	
	In Norway In another			
Place of prior education		country		
Previous degree obtained in Norway	13 405	480	13 885	
Previous degree obtained in another country	1 378	611	1 989	
Unknown place of prior education	76	2 327	2 403	
Total	14 859	3 418	18 277	

Source of data: Register data, NIFU and Statistics Norway.

ED 4 Doctorate Holders in 2009: Age at Graduation by main Field of Doctoral Degree.

	Number of	Age at graduati	ion (in years)
Field of Doctoral Degree	Doctorate	Average	Median
Total (all genders)	14 859	37,0	34,5
Natural sciences	3 823	33,9	32,1
Engineering and technology	2 634	32,7	30,9
Medical sciences	3 618	39,6	38,0
Agricultural sciences	885	35,3	33,5
Social sciences	2 522	40,4	38,2
Humanities	1 377	41,3	39,2
Of which: Men	9 891	36,4	34,1
Natural sciences	2 689	33,9	32,1
Engineering and technology	2 228	32,8	31,0
Medical sciences	2 184	39,5	38,1
Agricultural sciences	510	35,3	33,6
Social sciences	1 492	39,3	37,4
Humanities	788	41,0	38,7
Of which: Women	4 968	38,1	35,6
Natural sciences	1 134	33,9	32,0
Engineering and technology	406	32,0	30,3
Medical sciences	1 434	39,8	37,8
Agricultural sciences	375	35,3	33,5
Social sciences	1 030	41,8	39,8
Humanities	589	41,8	40,0

ED 5 Doctorate Holders in 2009 by main Field of Doctoral Degree and Primary Source of Funding during Completion of Doctorate.

i dilding during	Compice						
		Fie	ld of Docto	rate Degre	e		Total
	Natural	Engine-	Medical	Agricul-	Social	Humani-	
	sciences	ering and	sciences	tural	sciences	ties	
		technology		sciences			
Total (all sources of funding)	1 102	582	1 234	226	991	495	4 630
Fellowship, scholarship,							
grant from an institution in							
the country	837	374	511	183	596	355	2 856
Fellowship, scholarship,							
grant from abroad							
Teaching and/or research							
assistantship							
Other occupation							
Employer's							
reimbursement/assistance							
Loan, personal savings,							
spouse's, partner's or family							
support							
Other sources of funding	265	208	723	43	395	140	1 774
Unknown source of funding							
Total number of respondents	1 102	582	1 234	226	991	495	4 630

NB. Limited data basis: Only DHs awarded in Norway after 2004. - Awards from abroad are not included, neither are awards in Norway before 2005. - Fellowships/scholarships from institutions include those funded by universities, colleges and the Research Council of Norway.

EMP 1a Doctorate Holders in 2009 by Employment Status and Year of Doctoral Award. All genders.

	Situatio	on in emplo	yment		Workin	ng time	Unem-	Inactive	Total	
Year of Doctorate	Em- ployees	Self-em- ployed workers	Total	Full time	Part-time employ-		Total	ployed		
Total employed	16 673	449	17 122	15 440	1 111	571	17 122	222	933	18 277
Total before 1990	3 047	139	3 186	2 827	262	97	3 186	55	276	3 517
Total after 1990	13 516	309	13 825	12 511	840	474	13 825	165	651	14 641
1990	412	11	423	389	24	10	423	3	11	437
1991	427	18	445	410	23	12	445	4	15	464
1992	481	9	490	455	31	4	490	5	20	515
1993	497	19	516	479	24	13	516	7	16	539
1994	569	20	589	545	26	18	589	10	21	620
1995	575	30	605	551	36	18	605	1	17	623
1996	587	7	594	544	38	12	594	6	18	618
1997	652	17	669	611	41	17	669	6	23	698
1998	663	15	678	628	37	13	678	5	21	704
1999	683	16	699	629	49	21	699	2	22	723
2000	602	10	612	561	35	16	612	5	25	642
2001	638	9	647	595	36	16	647	6	22	675
2002	693	17	710	644	44	22	710	6	26	742
2003	655	16	671	605	42	24	671	10	23	704
2004	723	16	739	654	48	37	739	11	35	785
2005	800	15	815	728	58	29	815	12	34	861
2006	819	13	832	761	39	32	832	12	60	904
2007	948	11	959	859	55	45	959	8	48	1 015
2008	1 094	23	1 117	984	70	63	1 117	12	79	1 208
2009	998	17	1 015	879	84	52	1 015	34	115	1 164
Unknown year	110	1	111	102	9		111	2	6	119

EMP 1b Male Doctorate Holders in 2009 by Employment Status and Year of Doctoral Award.

	Situatio	on in emplo	yment		Workin	ng time	Unem-	Inactive	Total	
	Em-	Self-em-	Total			Unspeci-	Total	ployed		
	ployees			employ-	employ-	fied				
		workers		ment	ment	working				
Year of Doctorate						time				
Total employed	11 096	310	11 406	10 459	615	332	11 406	132	565	12 103
Total before 1990	2 513	109	2 622	2 357	174	91	2 622	36	202	2 860
Total after 1990	8 502	200	8 702	8 022	439	241	8 702	94	360	9 156
1990	323	9	332	307	17	8	332	3	6	341
1991	318	13	331	306	16	9	331	2	10	343
1992	372	9	381	355	22	4	381	4	11	396
1993	368	12	380	357	16	7	380	5	9	394
1994	389	15	404	373	14	17	404	6	13	423
1995	386	18	404	369	24	11	404		13	417
1996	376	3	379	355	19	5	379	4	8	391
1997	452	12	464	430	22	12	464	5	13	482
1998	449	10	459	428	21	10	459	1	13	473
1999	418	11	429	391	25	13	429	2	13	444
2000	375	5	380	353	19	8	380	2	17	399
2001	420	8	428	397	21	10	428	4	12	444
2002	414	11	425	399	19	7	425	3	9	437
2003	400	7	407	376	22	9	407	8	13	428
2004	427	12	439	400	25	14	439	6	20	465
2005	468	7	475	431	29	15	475	5	20	500
2006	498	8	506	473	19	14	506	5	36	547
2007	519	5	524	481	23	20	524	6	25	555
2008	593	15	608	553	32	23	608	7	36	651
2009	537	10	547	488	34	25	547	16	63	626
Unknown year	81	1	82	80	2		82	2	3	87

EMP 1c Female Doctorate Holders in 2009 by Employment Status and Year of Doctoral Award.

	Situatio	on in employ	yment		Workin	ig time	Unem-	Inactive	Total	
Year of Doctorate	ployees	Self-em- ployed workers	Total		Part-time employ- ment	Unspeci- fied working time	Total	ployed		
Total employed	5 577	139	5 716	4 981	496	239	5 716	90	368	6 174
Total before 1990	534	30	564	470	88	6	564	19	74	657
Total after 1990	5 014	109	5 123	4 489	401	233	5 123	71	291	5 485
1990	89	2	91	82	7	2	91		5	96
1991	109	5	114	104	7	3	114	2	5	121
1992	109		109	100	9		109	1	9	119
1993	129	7	136	122	8	6	136	2	7	145
1994	180	5	185	172	12	1	185	4	8	197
1995	189	12	201	182	12	7	201	1	4	206
1996	211	4	215	189	19	7	215	2	10	227
1997	200	5	205	181	19	5	205	1	10	216
1998	214	5	219	200	16	3	219	4	8	231
1999	265	5	270	238	24	8	270		9	279
2000	227	5	232	208	16	8	232	3	8	243
2001	218	1	219	198	15	6	219	2	10	231
2002	279	6	285	245	25	15	285	3	17	305
2003	255	9	264	229	20	15	264	2	10	276
2004	296	4	300	254	23	23	300	5	15	320
2005	332	8	340	297	29	14	340	7	14	361
2006	321	5	326	288	20	18	326	7	24	357
2007	429	6	435	378	32	25	435	2	23	460
2008	501	8	509	431	38	40	509	5	43	557
2009	461	7	468	391	50	27	468	18	52	538
Unknown year	29		29	22	7		29		3	32

EMP 2.1 Doctorate Holders in 2009 by Employment Status and Field of Doctoral Degree.

	Situatio	on in emplo	yment		Working time				Inactive	Total
	Em-	Self-em-	Total	Full time	Part-time	Unspeci-	Total	ployed		
	ployees	ployed		employ-	employ-	fied				
Field of doctoral		workers		ment	ment	working				
degree						time				
Total employed	16 673	449	17 122	15 440	1 111	571	17 122	222	933	18 277
of which:										
Natural										
sciences	4 136	29	4 165	3 887	167	111	4 165	42	174	4 381
Engineering										
and technology	2 715	27	2 742	2 587	72	83	2 742	31	84	2 857
Medical										
sciences	3 676	220	3 896	3 334	381	181	3 896	39	130	4 065
Agricultural										
sciences	885	21	906	793	66	47	906	11	37	954
Social										
sciences	2 882	55	2 937	2 662	192	83	2 937	27	106	3 070
Humanities	1 619	49	1 668	1 460	142	66	1 668	39	89	1 796
Unknown field	760	48	808	717	91		808	33	313	1 154

EMP 2.2 Doctorate Holders in 2009 by Employment Status and Age Class.

	Situatio	on in emplo	yment		Workin	ig time		Unem-	Inactive	Total
Year of Doctorate	ployees	Self-em- ployed workers	Total	Full time employ- ment		Unspeci- fied working time	Total	ployed		
Total employed	16 673	449	17 122	15 440	1 111	571	17 122	222	933	18 277
of which:										
Less than 35										
years old	1 688	15	1 703	1 536	75	92	1 703	34	205	1 942
35-44 years old	5 356	92	5 448	4 947	308	193	5 448	57	245	5 750
45-54 years old	5 276	158	5 434	4 962	347	125	5 434	63	150	5 647
55-64 years old	3 545	144	3 689	3 321	254	114	3 689	35	165	3 889
65-69 years old	808	40	848	674	127	47	848	33	168	1 049

EMP 2.3 Doctorate Holders in 2009 by Employment Status and Citizenship/Resident Status.

	Situatio	on in emplo	yment		Workin	ng time		Unem-	Inactive	Total
		Self-em-	Total	Full time	Part-time	Unspeci-	Total	ployed		
	ployees	ployed		employ-	employ-	fied				
		workers		ment	ment	working				
Year of Doctorat	е					time				
Total employed	16 673	449	17 122	15 440	1 111	571	17 122	222	933	18 277
Citizens of										
Norway	14 251	338	14 589	13 144	931	514	14 589	184	720	15 493
Foreign citizens	2 418	111	2 529	2 292	180	57	2 529	37	205	2 771
Unknown										
citizenship	4		4	4			4	1	8	13

Source of data: Register data, NIFU and Statistics Norway.

EMP 3 Doctorate Holders in 2009 by Employment Status and Primary Source of Funding during Completion of Doctorate

-	Situatio	on in employ	yment		Workin	ig time		Unem-	Inactive	Total
	Em-	Self-em-	Total	Full time	Part-time	Unspeci-	Total	ployed		
	ployees	ployed		employ-	employ-	fied				
		workers		ment	ment	working				
Year of Doctorate						time				
Total employed	4 318	71	4 389	270	3 898	221	4 389	66	175	4 630
Fellowship,										
scholarship,										
grant from an										
institution in the										
country	2 665	36	2 701	155	2 397	149	2 701	49	106	2 856
Fellowship,										
scholarship,										
grant from										
abroad										
Teaching						•••••				
and/or										
research										
assistantship										
Other										
occupation										
Employer's										
reimbursement/										
assistance										
Loan, personal										
savings,										
spouse's,										
partner's or										
family support										
Other source	•••••									
of funding										
Unknown	•••••				•••••	•••••				
source of										
funding	1 653	35	1 688	115	1 501	72	1 688	17	69	1 774
Total number of							-			
respondents	4 318	71	4 389	270	3 898	221	4 389	66	175	4 630

NB. Limited data basis: Only DHs awarded in Norway after 2004. - Awards from abroad are not included, neither are awards in Norway before 2005. - Fellowships/scholarships from institutions include those funded by universities, colleges and the Research Council of Norway.

EMP 4 Doctorate Holders in 2009 by Field of Doctoral Degree and Occupations.

ISCO-08	classifcation			Field of	Doctorate	Degree			Total
					Agricul-			Unspec.	
Code	Title	sci.	techn.	sci.	tural sci.	sci.	ties	field	
	Total employed	4 165	2 742	3 896	906	2 937	1 668	808	17 122
1	Managers	314	336	313	114	145	77	110	1 409
2	Professionals	3 574	2 029	3 222	694	2 566	1 438	481	14 004
21	Science and								
	engineering								
	professionals	1 809	1 279	242	235	550	298	351	4 764
211	Physical and earth								
	science professionals	300	115	36	16	36	11	71	585
212	Mathematicians,								
	actuaries and								
	statisticians	22	8	6	0	27	2	3	68
213	Life science								
	professionals	178	28	29	136	41	10	47	469
214-215	Engineering								
	professionals	1 052	1 034	106	60	257	68	155	2 732
216	Architects, planners,								
	surveyors and			_	_	_	_		
	designers	3	4	0	3	2	7	0	19
	Unspecified science								
	and engineering					407			
	professionals	254	90	65	20	187	200	75	891
22	Health professionals	76	11	1 906	87	15	2	20	2 117
221	Medical doctors	55	4	1 834	8	7	2	12	1 922
222	Nursing and midwifery								
	professionals	0	0	8	0	2	0	3	13
223-226	Other health								
	professionals	21	7	64	79	6	0	5	182
	Unspecified health								
	professionals	0	0	0	0	0	0	0	0
23	Teaching								
	professionals	1 335	572	938	280	1 548	979	37	5 689
231	University and higher	4.070				4 500			
	education teachers	1 270	565	932	266	1 529	944	18	5 524
232	Vocational education		_		_		47	40	70
	teachers	25	5	2	7	3	17	13	72
233	Secondary education								
224 225	teachers	0	0	0	0	0	0	0	0
234-235	Other teaching	40	2		-	40	40		02
	professionals	40	2	4	7	16	18	6	93
	Unspecified teaching	0	0	0	0	0	0	0	
24	professionals Business and	U	U	U	U	U	U	U	0
24	administration								
	professionals	133	53	63	53	96	31	41	470
241									
	Finance professionals Administration	45	22	47	16	78	26	11	245
242	professionals	0.4	20	7	20	45	5	40	405
242		81	28	/	30	15	5	19	185
243	Sales, marketing and								
	public relations	7	3	9	7	3	0	11	40
	professionals Unspecified business	,	3	9	,	3	U	- 11	40
	and administration								
	professionals	0	0	0	0	0	0	0	0
	professionals	U	U	U	U	U	U	(to be co	

(to be continued)

Table EMP4 continued

ISCO-08	3 classifcation			Field of	Doctorate	Degree			Total
	•	Natural	Eng. and	Medical	Agricul-		Humani-	Unspec.	
		sci.	techn.	sci.	tural sci.	sci.	ties	field	
Code	Title								
25	Information and								
	communication								
	technology (ICT)								
	professionals	112	55	14	5	21	4	7	218
251	Software and								
	applications developers								
	and analysts	112	55	14	5	21	4	7	218
252	Database and network								
	professionals	0	0	0	0	0	0	0	0
	Unspecified ICT								
	professionals	0	0	0	0	0	0	0	0
26	Legal, social and								
	cultural professionals	1	2	7	1	36	34	25	106
261	Legal profesionals	0	0	0	0	0	0	0	0
262	Librarians, archivists								
	and curators	0	0	0	0	5	6	5	16
263	Social, religious and								
	related professionals	1	2	7	1	30	7	18	66
264	Creative or performing								
	artists and writers	0	0	0	0	1	21	2	24
	Unspecified legal, social								
	and cultural								
	professionals	0	0	0	0	0	0	0	0
	Unspecified								
	professionals	108	57	52	33	300	90	0	640
Other	Other ISCO-08 groups	183	294	112	48	100	74	129	940
	Unspecified								
	occupations	94	83	249	50	126	79	88	769

EMP 5 Employed Doctorate Holders in 2008 by Sector of Employment, Field of Doctoral Degree and Sex.

	E	mployed as			Employed but	Total employed
		Sector of e			not specified	
•	Business	Govern-	Higher	Total	if in research	
	enterprise	ment	education			
Field of doctoral degree	sector	sector	sector			
Total employed (all						
genders)	809	1 879	7 432	10 120	6 136	16 256
Natural sciences	249	792	1 736	2 777	1 184	3 961
Engineering and technology	414	120	592	1 126	1 528	2 654
Medical sciences	28	265	1 938	2 231	1 398	3 629
Agricultural sciences	54	206	292	552	333	885
Social sciences	55	425	1 718	2 198	513	2 711
Humanities	9	70	1 155	1 234	381	1 615
Unspecified field		1	1	2	799	801
Of which: Men	578	1 199	4 926	6 703	4 299	11 002
Natural sciences	170	551	1 262	1 983	865	2 848
Engineering and technology	334	100	494	928	1 329	2 257
Medical sciences	10	152	1 217	1 379	849	2 228
Agricultural sciences	23	117	180	320	204	524
Social sciences	38	242	1 055	1 335	310	1 645
Humanities	3	36	717	756	194	950
Unspecified field		1	1	2	548	550
Of which: Women	231	680	2 506	3 417	1 837	5 254
Natural sciences	79	241	474	794	319	1 113
Engineering and technology	80	20	98	198	199	397
Medical sciences	18	113	721	852	549	1 401
Agricultural sciences	31	89	112	232	129	361
Social sciences	17	183	663	863	203	1 066
Humanities	6	34	438	478	187	665
Unspecified field	_				251	251

EMP 6.1 Employed Doctorate Holders in 2008: Median Gross Annual Earnings in 1000 NOK.

		Employ	ed as resear			Employed	Total
		Sector of er	mployment		of which:	but not	employed
•	Business	Govern-	Higher	Total	Postdocs	specified if	
	enterprise	ment	education			in research	
Field of doctoral degree	sector	sector	sector				
Total employed (all							
genders)	610	550	580	570	440	650	590
Natural sciences	590	540	520	530	430	620	550
Engineering and technology	660	580	590	610	450	790	700
Medical sciences	570	720	800	780	440	760	770
Agricultural sciences	510	490	520	500	430	530	510
Social sciences	590	570	590	590	470	520	580
Humanities	:	520	520	520	440	420	500
Unspecified field		:	:	:		560	560
Of which: Men	640	570	620	610	440	720	640
Natural sciences	610	560	550	560	440	660	570
Engineering and technology	660	590	620	630	460	800	730
Medical sciences	660	810	940	920	450	870	900
Agricultural sciences	540	510	560	540	440	560	550
Social sciences	590	590	640	630	510	580	620
Humanities	:	550	540	540	440	430	520
Unspecified field		:	:	:		670	670
Of which: Women	560	510	520	520	430	520	520
Natural sciences	550	490	470	480	430	560	490
Engineering and technology	610	520	520	550	400	670	610
Medical sciences	520	580	580	580	430	620	600
Agricultural sciences	480	470	460	470	430	460	470
Social sciences	600	540	540	540	460	470	530
Humanities	:	500	500	500	430	400	480
Unspecified field						450	450

Cells with less than 10 persons have been suppressed (:)

NB. Year of reference: 2008. 2009 data on researchers and salaries were not available at the time of the data linking.

EMP 6.2 Employed Doctorate Holders in 2008: Average Gross Annual Earnings in 1000 NOK.

		Employ	ed as researc	her		Employed	Total
		Sector of e			of which:	but not	employed
•	Business	Govern-	Higher	Total	Postdocs	specified if	
	enterprise	ment	education			in research	
Field of doctoral degree	sector	sector	sector				
Total employed (all							
genders)	650	590	650	640	460	710	670
Natural sciences	630	560	560	560	440	690	600
Engineering and technology	690	600	640	650	460	870	780
Medical sciences	600	750	820	810	490	770	800
Agricultural sciences	560	500	550	530	430	530	530
Social sciences	610	590	660	640	490	590	630
Humanities	:	550	540	540	430	380	500
Unspecified field		:	:	:		640	640
Of which: Men	680	620	700	680	480	770	720
Natural sciences	650	580	580	590	460	730	630
Engineering and technology	700	610	660	670	480	890	800
Medical sciences	730	840	930	920	530	850	890
Agricultural sciences	650	530	580	570	450	580	570
Social sciences	600	610	710	690	530	670	690
Humanities	:	610	550	560	430	390	520
Unspecified field		:	:	:		720	720
Of which: Women	590	540	570	560	440	550	560
Natural sciences	570	510	490	500	420	590	530
Engineering and technology	660	540	550	590	410	700	650
Medical sciences	520	630	650	650	470	640	650
Agricultural sciences	480	470	500	490	420	460	480
Social sciences	620	550	580	570	460	470	550
Humanities	:	500	510	510	420	360	470
Unspecified field						470	470

Cells with less than 10 persons have been suppressed (:)

NB. Year of reference: 2008. 2009 data on researchers and salaries were not available at the time of the data linking.

EMP 7 Doctorate Holders in 2008: Gross Annual Earnings by Primary Source of Funding during Completion of Doctorate. In 1000 NOK.

	Employ	ed as	Employed	but not	All Emp	loyed
	resear	cher	specifie	d if in		
			resea	rch		
	Average	Median	Average	Median	Average	Median
Total (all sources of funding)	520	470	560	530	530	490
Fellowship, scholarship,						
grant from an institution in						
the country	480	460	510	500	490	470
Fellowship, scholarship,						
grant from abroad						
Teaching and/or research						
assistantship						
Other occupation						
Employer's						
reimbursement/assistance						
Loan, personal savings,						
spouse's, partner's or family						
support						
Other sources of funding						
Unknown source of funding	580	510	620	580	590	530
Total number of respondents	520	470	560	530	530	490

NB. Limited data basis: Only DHs awarded in Norway after 2004. - Awards from abroad are not included, neither are awards in Norway before 2005. - Fellowships/scholarships from institutions include those funded by universities, colleges and the Research Council of Norway.

PERC1.1 Employed Doctorate Holders: Perception regarding their Job Qualification by Sex and Year of Doctoral Award.

					Job relat	ion to the	doctoral	degree				
		Related		Pa	rtly relate	d	N	ot related			ypes of j	
Year of Doctorate	Men	Wome	Total	Men	Wome	Total	Men	Wome	Total	Men	Wome	Tota
Total employed												
Total years before												
Total years after 19	990											
1990												
1991												
1992												
1993												
1994												
1995												
1996												
1997												
1998												
1999												
2000												
2001												
2002	107	80	187	143	90	233	4	6	10	254	176	430
2003												
2004												
2005	131	116	247	147	94	241	6	6	12	284	216	500
2006												
2007												
2008												
2009												
Unknown year												

Source of data: Survey of the 2002 and 2005 doctoral awards cohorts, implemented at NIFU in 2007.

The table was reported also in 2008.

Tables list

P 1	Doctorate Holders in 2007, 2008 and 2009 by Sex and Age class	. 15
P 2.1	Doctorate Holders in 2009 by Type of Citizenship and Place of Birth	. 15
P 2.2	Doctorate Holders in 2007, 2008 and 2009 by Citizenship	. 15
P 3	Doctorate Holders in 2007, 2008 and 2009 by Sex and Country of Citizenship	. 16
P 4	Doctorate Holders in 2007, 2008 and 2009 by Citizenship and Age class	. 19
P 5a	Doctorate Holders in 2007 by Citizenship and Field of Doctorate Degree	. 20
P 5b	Doctorate Holders in 2008 by Citizenship and Field of Doctorate Degree	. 21
P 5c	Doctorate Holders in 2009 by Citizenship and Field of Doctorate Degree	. 22
P 6	Doctorate Holders in 2007, 2008 and 2009 by Sex and Country of Birth	. 23
P 7	Doctorate Holders in 2007, 2008 and 2009 by Place of birth and Age class	. 26
P 8a	Doctorate Holders in 2007 by Place of Birth and Field of Doctorate Degree	. 27
P 8b	Doctorate Holders in 2008 by Place of Birth and Field of Doctorate Degree	. 28
P 8c	Doctorate Holders in 2009 by Place of Birth and Field of Doctorate Degree	. 29
ED 1	Doctorate Holders in 2009 by Citizenship and Region of Doctoral Award	
ED 2	Doctorate Holders in 2009 by Place of Birth and Region of Doctoral Award	
ED 3	Doctorate Holders in 2009 by Country of Doctoral Award and of Prior Education	
ED 4	Doctorate Holders in 2009: Age at Graduation by main Field of Doctoral Degree	. 30
ED 5	Doctorate Holders in 2009 by main Field of Doctoral Degree and Primary Source of	
	Funding during Completion of Doctorate	. 31
EMP 1a	Doctorate Holders in 2009 by Employment Status and Year of Doctoral Award. All	
	genders	. 32
EMP 1b	Male Doctorate Holders in 2009 by Employment Status and Year of Doctoral Award	. 33
EMP 1c	Female Doctorate Holders in 2009 by Employment Status and Year of Doctoral Award.	
EMP 2.1	Doctorate Holders in 2009 by Employment Status and Field of Doctoral Degree	
EMP 2.2	Doctorate Holders in 2009 by Employment Status and Age Class.	
EMP 2.3	Doctorate Holders in 2009 by Employment Status and Citizenship/Resident Status	. 35
EMP 3	Doctorate Holders in 2009 by Employment Status and Primary Source of Funding	
	during Completion of Doctorate	
EMP 4	Doctorate Holders in 2009 by Field of Doctoral Degree and Occupations	. 37
EMP 5	Employed Doctorate Holders in 2008 by Sector of Employment, Field of Doctoral	
	Degree and Sex	
EMP 6.1	Employed Doctorate Holders in 2008: Median Gross Annual Earnings in 1000 NOK	. 40
EMP 6.2	Employed Doctorate Holders in 2008: Average Gross Annual Earnings in 1000 NOK	. 41
EMP 7	Doctorate Holders in 2008: Gross Annual Earnings by Primary Source of Funding	
	during Completion of Doctorate. In 1000 NOK	. 42
PERC1 1	Employed Doctorate Holders: Perception regarding their Job Qualification by Sex and	
	Voor of Doctoral Award	12

Nordisk institutt for studier av innovasjon, forskning og utdanning

Nordic Institutute for Studies in Innovation, Research and Education

www.nifu.no