

Class of 2016 PhD Post-Graduate Information

PhD Degree

Doctoral School: LIFE, HEALTH, AGRONOMY, AND ENVIRONMENTAL SCIENCES

The situation of our doctors, and more specifically, their professional integration, was observed on December 1st 2017, one year after the date of their defense, and on December 1st 2019, three years after their defense. This study was carried out using a questionnaire designed by the Ministry of Higher Education, Research and Innovation (MESRI), which oversees all French universities.

Number of PhD holders surveyed: 66

Number of respondents: 54

Response rate:

82%

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1 - Profile of respondents

All PhD holders

	Ν	%
Female	37	56%
Male	29	44%
Total	66	100%

Sex

Nationality

	IN	70
French	52	79%
Foreign	14	21%
Total	66	100%

Nationality

Age

Average = 31 years Standard Deviation = 5

	Ν	%
Under 24 years	0	.0%
24 to 29 years	36	55%
30 to 34 years	16	24%
35 to 39 years	10	15%
40 to 44 years	2	3%
45 years and over	2	3%
Total	66	100%

Responding PhD holders

Sex

	N	%		N	%
Female	29	54%	French	45	83%
Male	25	46%	Foreign	9	17%
Total	54	100%	Total	54	100%

Age

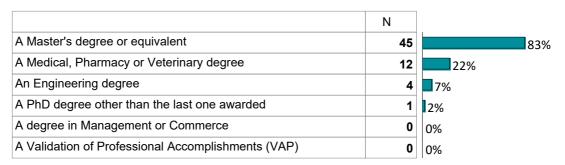
Average = **30** years Standard Deviation = **5**

	IN	70
Under 24 years	0	0%
24 to 29 years	31	57%
30 to 34 years	13	24%
35 to 39 years	8	15%
40 to 44 years	1	2%
45 years and over	1	2%
Total	54	100%

 $\underline{\text{NOTE}}$: The profile of respondents is similar to that of the PhD holders surveyed, with the exception of foreign doctors, who are underrepresented among the respondents.

2 - Studies before PhD program

► Last degree(s) awarded before PhD program

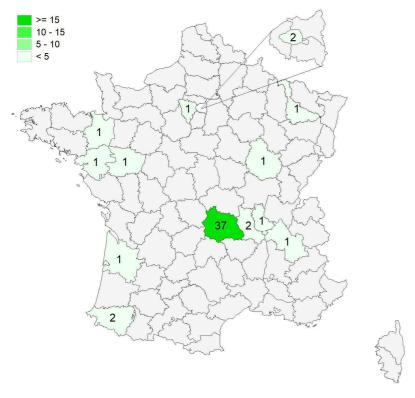


Response rate: 100%

► Location of last degree received

31% of doctors received their last degree from another institution than UCA.

Numbers



Geographical distribution

Auvergne-Rhône-Alpes	41	76%
Ile-de-France	3	6%
Other department in mainland France	8	15%
Abroad:	2	4%
Brazil	1	
Iraq	1	

Response rate: 100%

Professional status before receiving PhD

- 43% of PhD holders were employed before the PhD program.
- At enrollment, **22**% doctors had a job unrelated to their PhD project, **58**% of whom held on to the job during the program.



- PhD program

► PhD Specialization

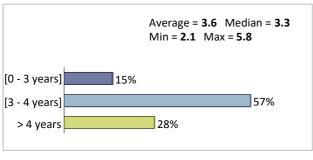
	Female	Male
Molecular and Cellular Biology	9	3
Environment, Population, and Ecology Biology	-	1
Biology of Organisms	-	3
Biomolecules, Pharmacology, Therapeutics	1	2
Agricultural Food Biotechnology, Food Sciences	2	-
Animal, Plant, and Microbial Biotechnology	-	3
Information Technology and Applications	-	2
Physiology, Biology of Organisms, Populations, Interactions	2	2
Clinical Research, Technological Innovation, Public Health	1	2
Agronomic sciences	-	1
Earth and Universe Sciences	1	-
Life and Health Sciences	13	9

Response rate: 100%

▶ Dual-Degree Thesis Program

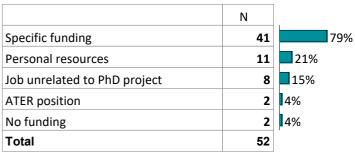
Among the 3 doctors who were awarded a dual-degree, 2 were foreign nationals and 1 carried out his PhD program in collaboration with a research laboratory in his home country.

▶ Duration of PhD program*



Response rate: 100%

▶ PhD funding



Response rate: 96%

Sources of specific funding

	N		PhD funding contract types		
tate funding	21	55%		NI.	
egional government	9	24%		N	
		13%	Doctoral	24	60%
rivate funding from French-based organization	<u> </u>	13%	Scholarship	12	30%
oreign funding	3	8%	•		200/
IFRE	2	5%	Temporary job	8	20%
oth private and public funding (excluding CIFRE)	2	5%	Permanent job	1	1 3%
bill private and public funding (excluding cirkl)		370	Includes concurre	nt contra	acts
rench public research funding agencies	1	3%	(e.g. temp. + scho	l.)	
uropean Commission Funding	0	0%			



^{*}Deviation between the defense date and the registration date in number of years

Career Plan

	N	
Teaching or research in a public or private institution of higher education	27	51%
Working in R&D at a company	9	17%
Working in public research	9	17%
Pursuing or progressing in job held before PhD	5	9%
None	1	2%
Working in the public sector excluding research and higher education	1	2%
Working in a company excluding R&D	1	2%
Creating a company	0	0%
Career change	0	0%
Other	0	0%
Total	53	

Response rate: 98%

CNU Qualification (National Council of Universities)

35% of doctors applied for a CNU qualification. 89% of these doctors received the qualification.

	Female	Male	Total
Received CNU qualification	8	8	16
Applied, awaiting response	-	1	1
Did not receive CNU qualification	-	1	1
Did not apply	20	13	33
Total	28	23	51

Response rate: 94%

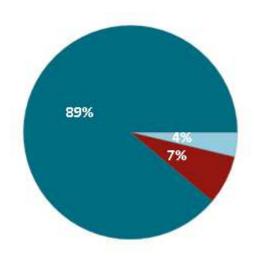
Continuing studies

4 doctors enrolled in a program or a civil service exam after their PhD.

	Male	Female	Total
Master, Engineering degree or equivalent	1	-	1
PhD, Accreditation to Supervise Research (HDR)	2	-	2
Other: professional certifications (IT, TOEIC, TOEFL, etc)	-	1	1
Total	3	1	4



Situation of PhD holders on December 1st 2019



	Female	Male	Total
Employed	25	23	48
Employed after 1/12/2019	1	1	2
Job Seeker	3	1	4
Other	-	-	0
Total	29	25	54

- ▶ 89% of doctors from the class of 2016 were employed on December 1st 2019.
- ▶ 4 PhD holders were seeking employment for the past 9 months on average and all had already held a job since receiving their PhD degree.

They were seeking employment in the following fields:

They were earling annular mont in the following leastions.	
Innovation, research valorization and assistance	0
Education (excluding higher education and research)	0
Higher education and research	1
Research and Development	3

They were seeking employment in the following locations:

Their region or neighboring departments	2
Everywhere in France	1
Their department of residence	1
Abroad	0

KEY FIGURES

	Employed PhD holders							
		Contract Type		Contract Type Sector		Other key figures		
rate (1)	<i>Cadre</i> rate ⁽²⁾	Permanent ⁽³⁾	Post-doctoral contracts (4)	Other contracts ⁽⁵⁾	Research ⁽⁶⁾	Not research ⁽⁷⁾	Median time spent before 1st job ⁽⁸⁾	Median gross salary ⁽⁸⁾
92%	96%	54.2%	25%	20.8%	34.1%	65.9%	< 1 month	€2,829

- (1) Number of employed PhD holders/ (Number of employed PhD holders + Number of job seeking PhD holders)
- (2) Cadres of the following categories: civil servant, administrative, IT, company head, accredited profession, higher education teachers and scientific professions, secondary and school teachers
- (3) Number of PhD holders with a stable contract: permanent, civil servant, company head, accredited profession/Number of employed PhD holders
- $(4) \ \ Number of PhD \ holders \ with \ a \ post-doctoral \ contract/Number \ of \ employed \ PhD \ holders$
- (5) Number of employed PhD holders with another contract: temporary, interim, adjunct position, ATER/Number of employed PhD holders
- (6) Number of employed PhD holders in a company working in research/Number of employed PhD holders
- (7) Number of employed PhD holders in a company not working in research/Number of employed PhD holders
- (8) Median=value separating the top 50% of respondents and the 50% bottom respondents



Employment held on December 1st 2019

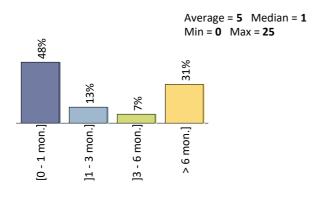
Current employment contract type

	Female	Male	Total
Permanent	12	14	26
Temporary (excl. post-doctoral)	5	5	10
Post-doctoral contract	8	4	12
ATER position	-	-	0
Adjunct position	-	-	0
Other	-	-	0
Total	25	23	48

Response rate: 100%

- **54%** of PhD holders were still working at the first job obtained after their PhD defense.
- ▶ 93.8% of PhD holders worked full-time and 6.3% worked part-time.
- ▶ Temporary contracts varied between 1 and 48 months, with the median duration being 18 months.
- **54%** of PhD holders had a stable job.

Time spent before 1st job



Response rate: 100%

Method of finding current job



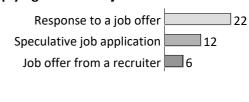
Response rate: 90%

Skills required for job

	N	1
Project management	34	79%
Staff management	29	67%
International work	26	60%
Budget management	22	51%

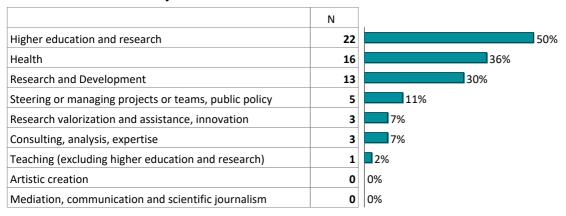
Response rate: 96%

Method of applying for current job



Response rate: 85%

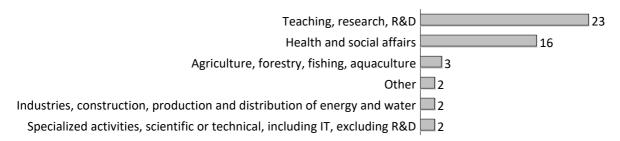
Functions held at current job



Response rate: 92%



Employment by activity sector

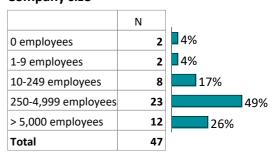


Response rate:100%

Company categories

	N	%
Civil service	31	65%
Private company	15	31%
Your own	1	2%
Public company	1	2%
A non-profit association or organization	-	0%
Other	-	0%
International organization or non-EU organization	-	0%
Individual with an accredited or independent profession	-	0%
Total	48	100%

Company size



Response rate: 98%

Response rate: 100%

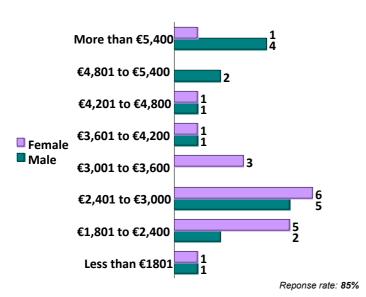
Employment status

	Female	Male	Total
Higher education teacher, scientific profession	10	12	22
Secondary school teacher	1	-	1
School teacher, instructor, or equivalent	-	-	0
Category A civil servant	2	1	3
Company head, retailer, or equivalent	-	1	1
Engineer or company technical cadre	9	7	16
Administrative or commercial cadre	1	1	2
Accredited profession, legal and technical	-	-	0
Accredited profession, medical	1	-	1
Salaried employee	1	1	2
Information, arts and entertainment profession	_	_	0
Intermediate profession, administrative and commercial	-	-	0
Total	25	23	48



Salaries of PhD holders (excluding bonuses)

67 % were satisfied with their salary.



	Female	Male	Total
Average	€2,965	€3,871	€3,405
Min	€1,599	€1,353	€1,353
Max	€6,150	€7,626	€7,626
Median	€2,774	€2,952	€2,829

The gross monthly salary of PhD holders (excluding bonuses) varied between €1,353 and €7,626. The median gross salary was €2,829*.

Salaries are calculated based on full-time employment. The salaries of PhD holders working abroad were not taken into account.

Bonuses

9 PhD holders specified the annual gross amount of the bonuses they received. These bonuses varied between **€850** and **€12,000**, with the median amount being **€3,000**.

Location of employment

Geographical distribution of jobs

Auvergne-Rhône-Alpes	25	52%
Ile-de-France	3	6%
Other departments in mainland France	12	25%
Overseas France	0	0%
Abroad:	8	17%

Denmark	1
United Arab Emirates	1
United States	2
Japan	1
United Kingdom	1
Sweden	1
Switzerland	1



List of jobs occupied

		Female	Male	Total
	Researcher	5	3	8
	Hospital Practitioner	1	3	4
	Research Engineer	2	1	3
	Research and Development Engineer	0	3	3
	Associate Professor	3	0	3
	Associate Professor - Hospital Practitioner	1	2	3
	Hospital Engineer	2	0	2
	Department Manager	1	1	2
	Farmer	0	1	1
	Chargé de mission	1	0	1
	Research and Development Assistant	0	1	1
	Research valorization assistant	1	0	1
Cadre jobs	Software Developer	0	1	1
	University Lecturer and Researcher	0	1	1
	University Instructor	0	1	1
	Analytical Engineer	1	0	1
	Business Intelligence Engineer	0	1	1
	Development Engineer	1	0	1
	Gastroenterologist	0	1	1
	General Practitioner	1	0	1
	Psychiatrist	0	1	1
	Nutritionist	1	0	1
	Secondary School Teacher	1	0	1
	NGS and Bioinformatics Operations Manager	1	0	1
	CNS Medication Development Manager	0	1	1
	Scientific Assistance	1	0	1
Non <i>cadre</i> jobs	Laboratory Technician	1	0	1
	Garbage Collector	0	1	1
Total		25	23	48



▶ Job Satisfaction

86% of doctors were satisfied with their job in general.

	Very satisfied	Satisfied	Dissatisfied	Very dissatisfied
General satisfaction with current professional situation	14	22	3	3
Satisfaction with prospective career development opportunities	10	18	6	7
Satisfaction with salary	9	19	7	7
Satisfaction with avenues opened by job	16	16	8	2
Satisfaction with appropriateness of job to PhD	16	18	6	2
General satisfaction with current professional situation	33%		52%	7% 7%
Satisfaction with prospective career development opportunities	24%	44%	15%	17%
Satisfaction with salary	21%	45%	17%	17%
Satisfaction with avenues opened by job	38%		38%	19% <mark>5%</mark>
Satisfaction with appropriateness of job to PhD	38%		43%	14% 5%

59% of doctors declared that a PhD was required to perform their current job and **81%** of doctors were satisfied with the appropriateness of the job to the PhD.



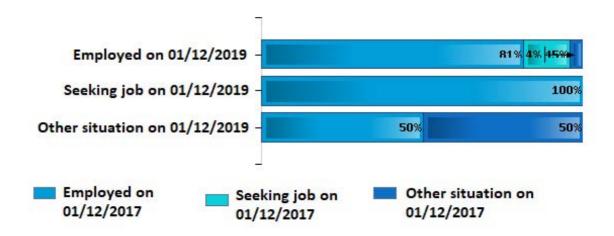
5 - Developments in doctors' situations 1 year and 3 years after receiving their degree

Situations on December 1st 2017 and 2019

	Employed		Job Seeker		Other		Total	
	N	%	N	%	N	%	N	%
Situation on 01/12/2017	44	81%	7	13%	3	6%	54	100%
Situation on 01/12/2019	48	89%	4	7%	2	4%	54	100%



▶ Development in doctors' situations after 1 year and after 3 years



81% of doctors employed on 01/12/2019 were already employed on 01/12/2017 and **all** of the doctors seeking work on 01/12/2019 were employed on 01/12/2017.

GLOSSARY

ATER: Attaché Temporaire d'Enseignement et de Recherche (Temporary teaching and research assistant)

CNU: National Council of Universities to become an associate or full professor

CIFRE: Work placement agreement placing a PhD student in a company

Dual-Degree Thesis Program: A dual-degree thesis is a program to promote global engagement for PhD students and to develop scientific collaboration between foreign and French research teams.

Doctoral contract: The doctoral contract is the main type of funding granted to PhD students. The doctoral contract is open to all PhD students who have been enrolled for less than six months in their first year, with no age requirement.

Post-doctoral contract: A post-doctoral contract is a temporary work contract in the public and private research sphere, in France or abroad.

PhD degree: The PhD is the highest degree in higher education, training students for research by conducting research. In this respect, it is considered a professional research experience. It leads to the creation of new knowledge.

ED: Doctoral school

ED LSHS: Doctoral School of LITERATURE, HUMAN AND SOCIAL SCIENCES

ED SVSAE: Doctoral School of LIFE, HEALTH, AGRONOMY, AND ENVIRONMENTAL SCIENCES

ED SEJPG: Doctoral School of ECONOMIC, LAW, POLITICAL AND MANAGEMENT SCIENCES

ED SF: Doctoral School of FUNDAMENTAL SCIENCES

ED SPI: Doctoral School of ENGINEERING SCIENCES

MCU: Maître de Conférence Universitaire (Associate Professor)

