

Rentrée doctorale

9^e édition

ED
BSL

ED
ENGSYS

ED
MADIS

ED
SESAM

ED
SHS

ED
SJPG

ED
SMRE



Collège
Doctoral



Université
de Lille



Graduate School - 104

Sciences of Matter, Radiation
and Environment

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<https://edsmre.univ-lille.fr>

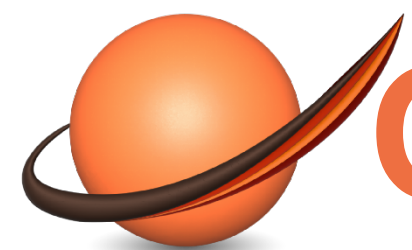
 https://twitter.com/ED_SMRE

 <https://www.linkedin.com/school/15138321/>

(The Doctoral School website should be translated in English in 2024)

Rooms 13 & 17, Building P5
Lille University – Faculty of Sciences and Technology
Cité Scientifique
59655 Villeneuve d'Ascq Cedex
Tel: +33 3 20 43 40 62

Kick-off meeting
2023-2024



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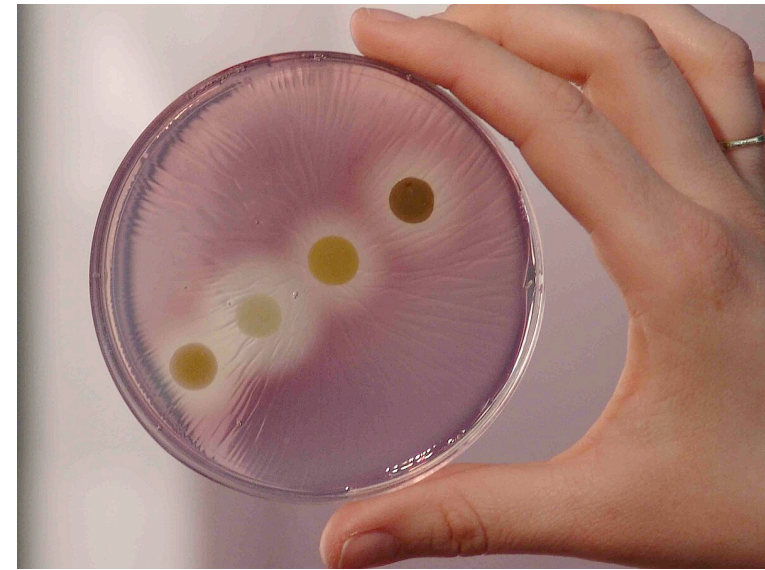
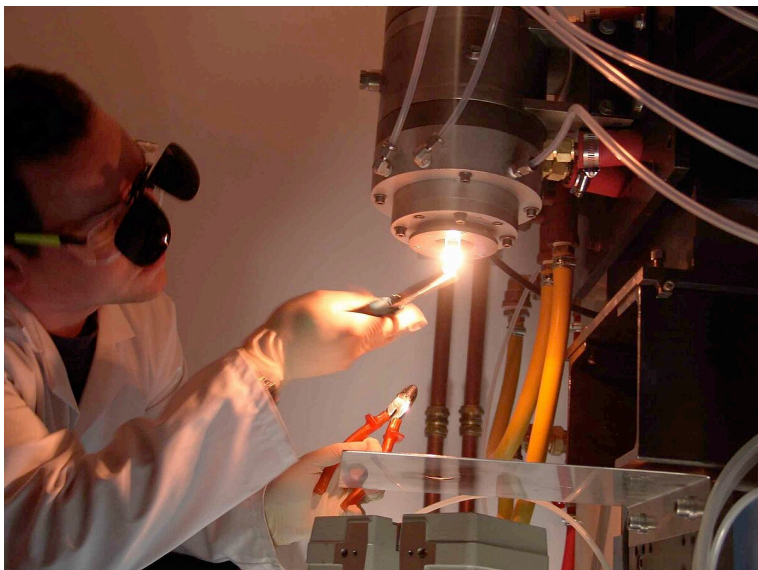
Organisation of doctoral training in the Lille region

- 7 « Thematic » Graduate Schools (Ecoles Doctorales en français) :
 - ED 73 SESAM : Sciences Economiques, Sociales, de l'Aménagement et du Management (Economic, Social, Planning and Management Sciences)
 - ED 74 SJPG : Sciences Juridiques, Politiques et de Gestion (Legal, Political and Management Sciences)
 - ED 473 SHS : Sciences de l'Homme et de la Société (Human and Social Sciences)
 - ED 631 MADIS : Mathématiques, Sciences du numérique et de leurs interactions (Mathematical and Digital Sciences)
 - ED 632 ENGSYS : Ingénierie et Systèmes (Engineering and Systems)
 - **ED 104 SMRE : Sciences de la Matière, du Rayonnement et de l'Environnement (Sciences of Matter, Radiation and Environment)**
 - ED 446 B&S : Biologie et Santé (Biology and Health)
- The « **Collège Doctoral Lille – Nord de France** », place of **mutualization** and **coordination** between the 7 EDs (<https://doctorat.univ-lille.fr/college-doctoral/>)

What is the scientific scope of the SMRE GS ?

➤ A multidisciplinary school

- Chemistry
- Physics
- Earth and universe sciences, space
- Biology, medicine, health
- Agricultural and ecological sciences
- Engineering sciences



➤ 13 internationally recognized research labs (associated to CNRS, INRAe, ...)

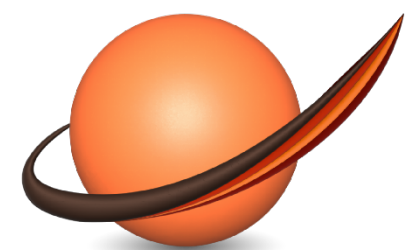
- UCCS, MSAP, LASIRE, PC2A
- PhLAM, LOA, CERI EE
- EEP, LOG
- UMET, LGCGE, CERI MP
- BioEcoAgro

➤ 3 Research Institutes

- *IRePSE*
- Chevreur
- Physics

➤ 2 labex (network of excellence)

- CaPPA 
- CEMPI 



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Doctoral thesis specialties offered by SMRE

➤ **Scientific domains of MESR (French Ministry)**

- Chemistry
- Physics
- Earth and universe sciences, space
- Biology, medicine, health
- Agricultural and ecological sciences
- Engineering sciences

The degree specialties are linked to the scientific domains of the MESR, and are close to the titles of the CNRS and CNU sections

➤ **13 Doctoral thesis specialties**

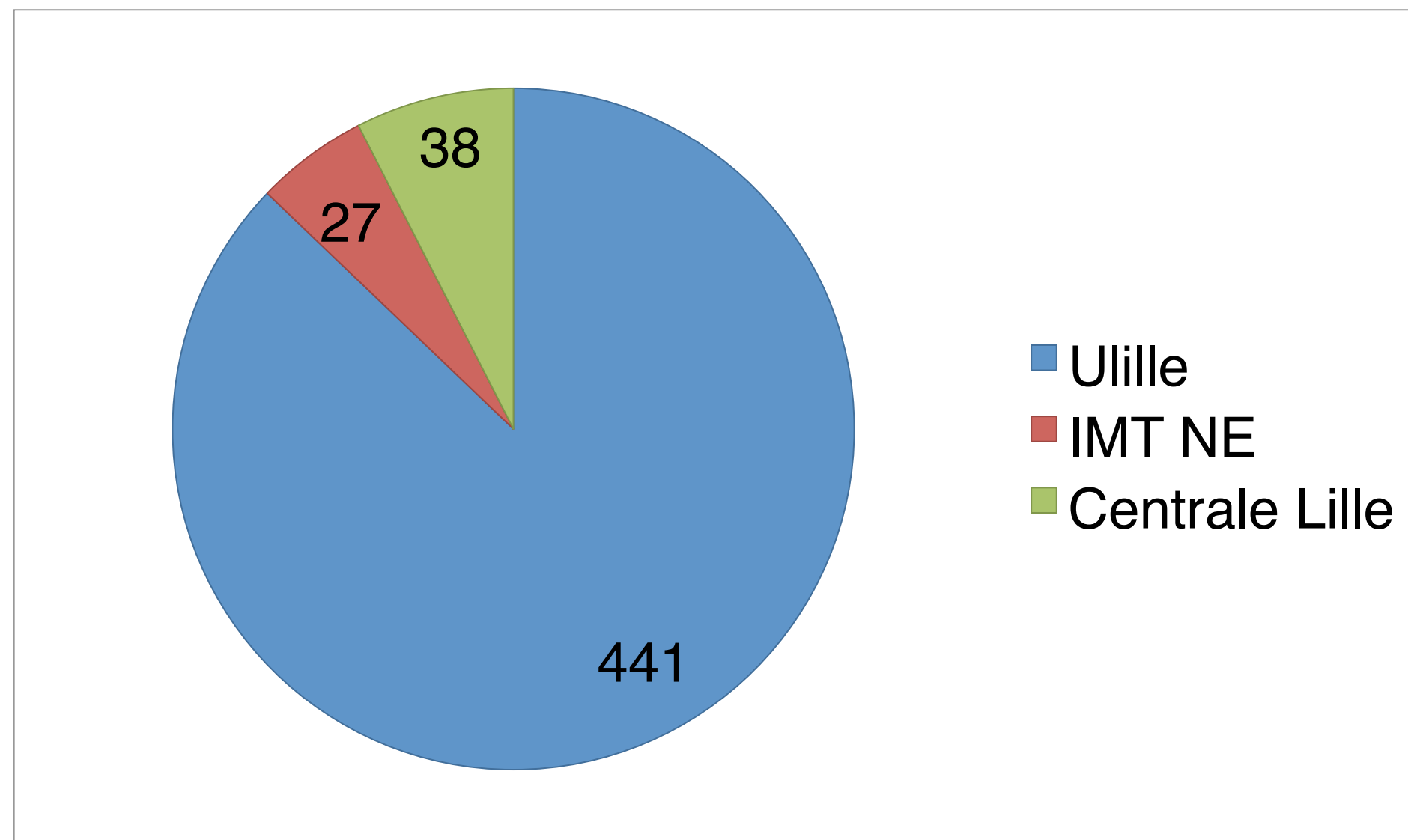
- Milieux dilués et optique fondamentale
- Milieux denses, matériaux et composants
- Sciences de la Terre et de l'univers
- Terre, enveloppes fluides
- Chimie théorique, physique, analytique
- Chimie organique, minérale, industrielle
- Chimie des matériaux
- Aspects moléculaires et cellulaires de la biologie
- Energétique, thermique, combustion
- Mécanique des solides, des matériaux, des structures et des surfaces
- Biotechnologies agroalimentaires, sciences de l'aliment, physiologie
- Sciences Agronomiques
- Biologie de l'environnement, des organismes, des populations, écologie

The SMRE GS in numbers

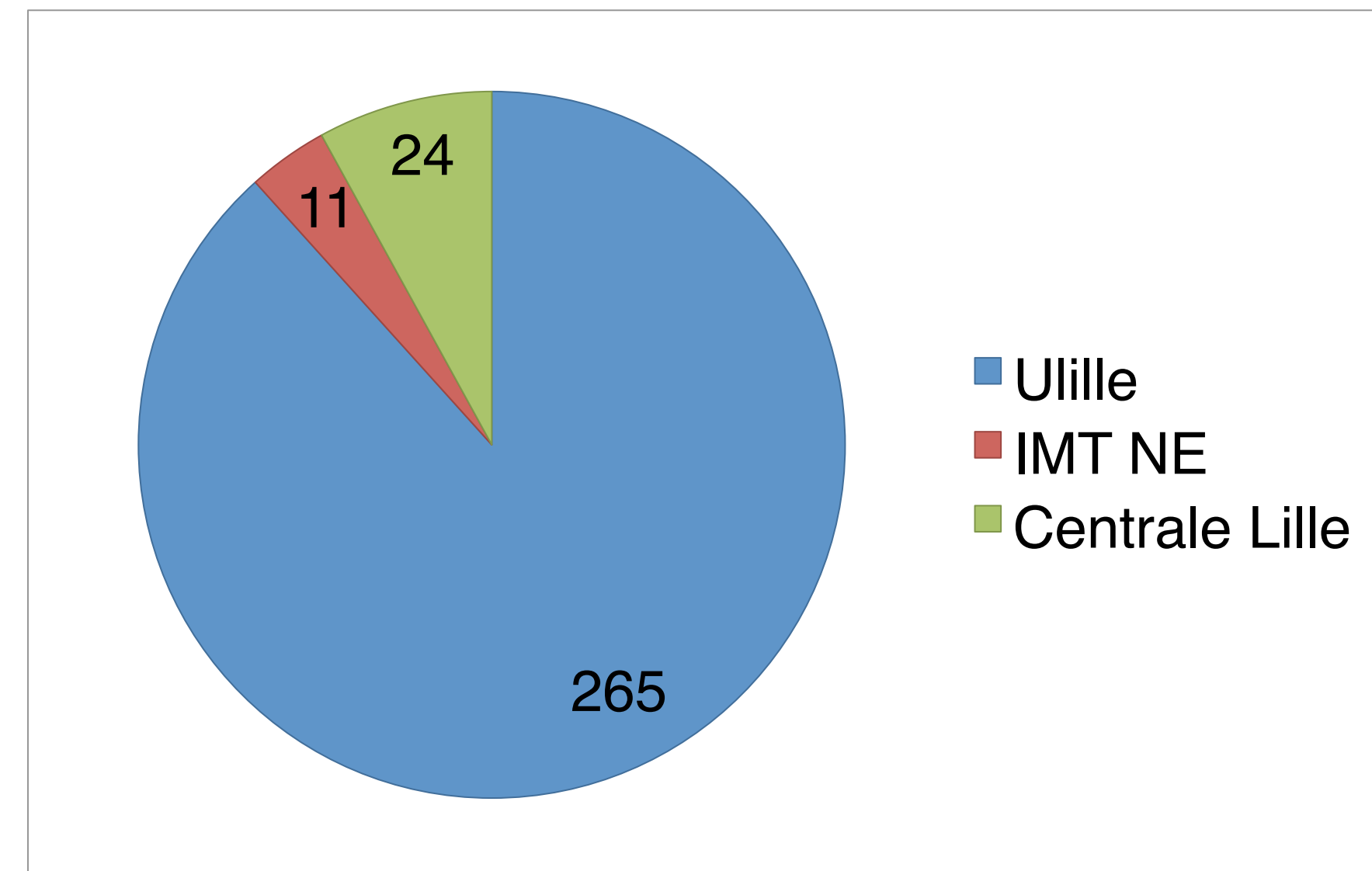
3 co-accredited **institutions**: Univ Lille, Centrale Lille Institut, IMT Nord Europe
=> **they award the degree of doctor**

In 2023: about 500 researchers including **300 with HDR** (Habilitation to Supervise Research)

Researchers per institution



HDR per institution



Place of the SMRE GS in the Doctoral landscape of Lille (2022)

number of registrations/establishment in 2022	
U Lille	309
Centrale Lille	43
IMT NE	29
Total	381

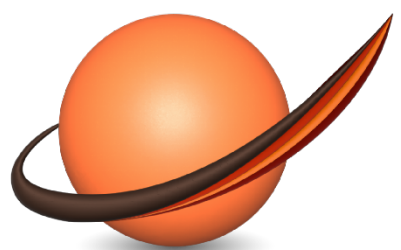
➤ PhD students in 2022

- Total number: 381
- 15% of total registrations
- Ratio F/M: 48%/52%
- International PhD students: 56%

Defences in 2022	
U Lille	92
Centrale Lille	11
IMT LD/NE	7
Total	110

➤ Defences

- about 100-110/year
- 25% of the total defences



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The SMRE GS in numbers (continued)

International PhD students: **56%** (58% in 2019, 50% in 2013)

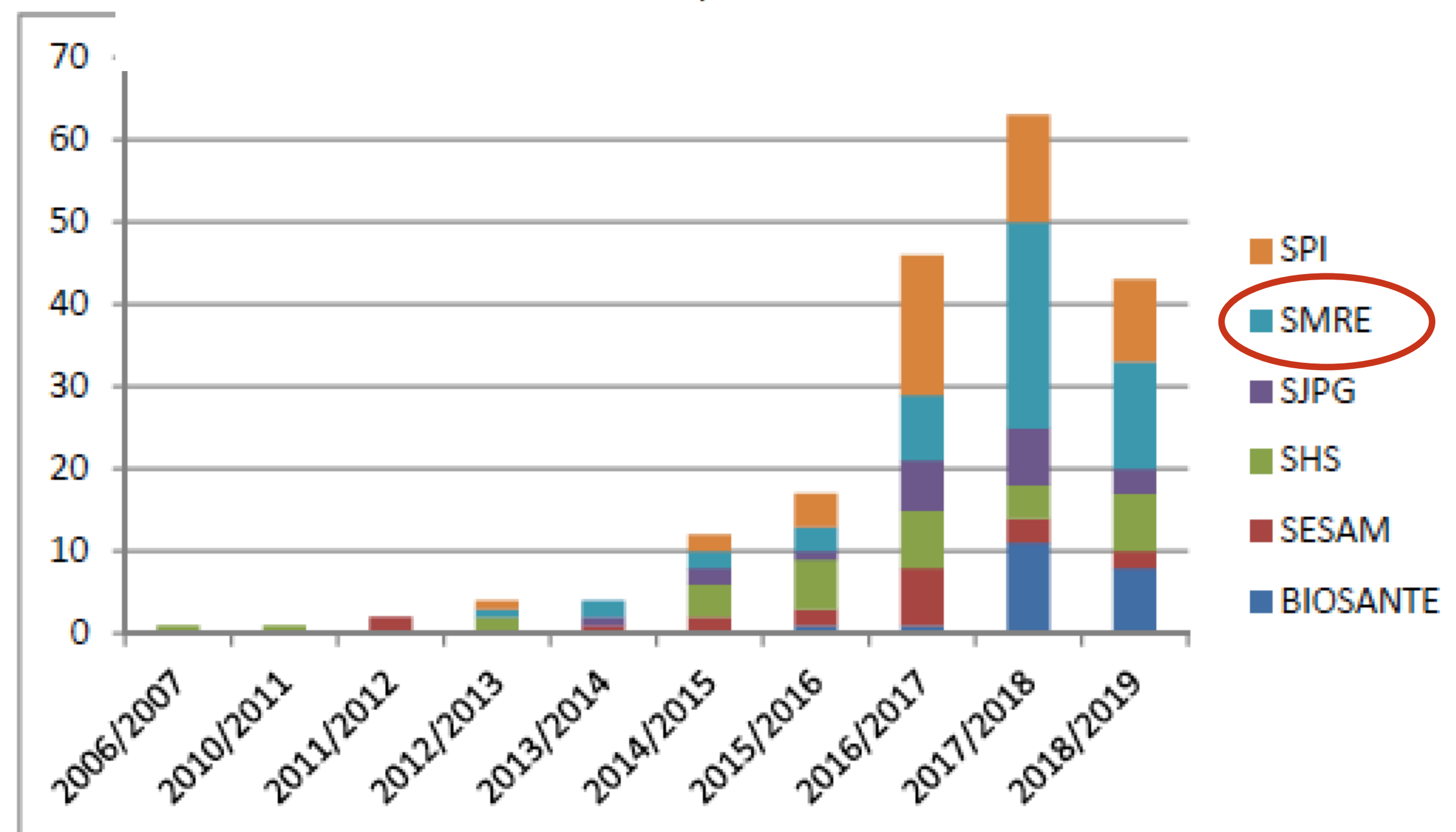
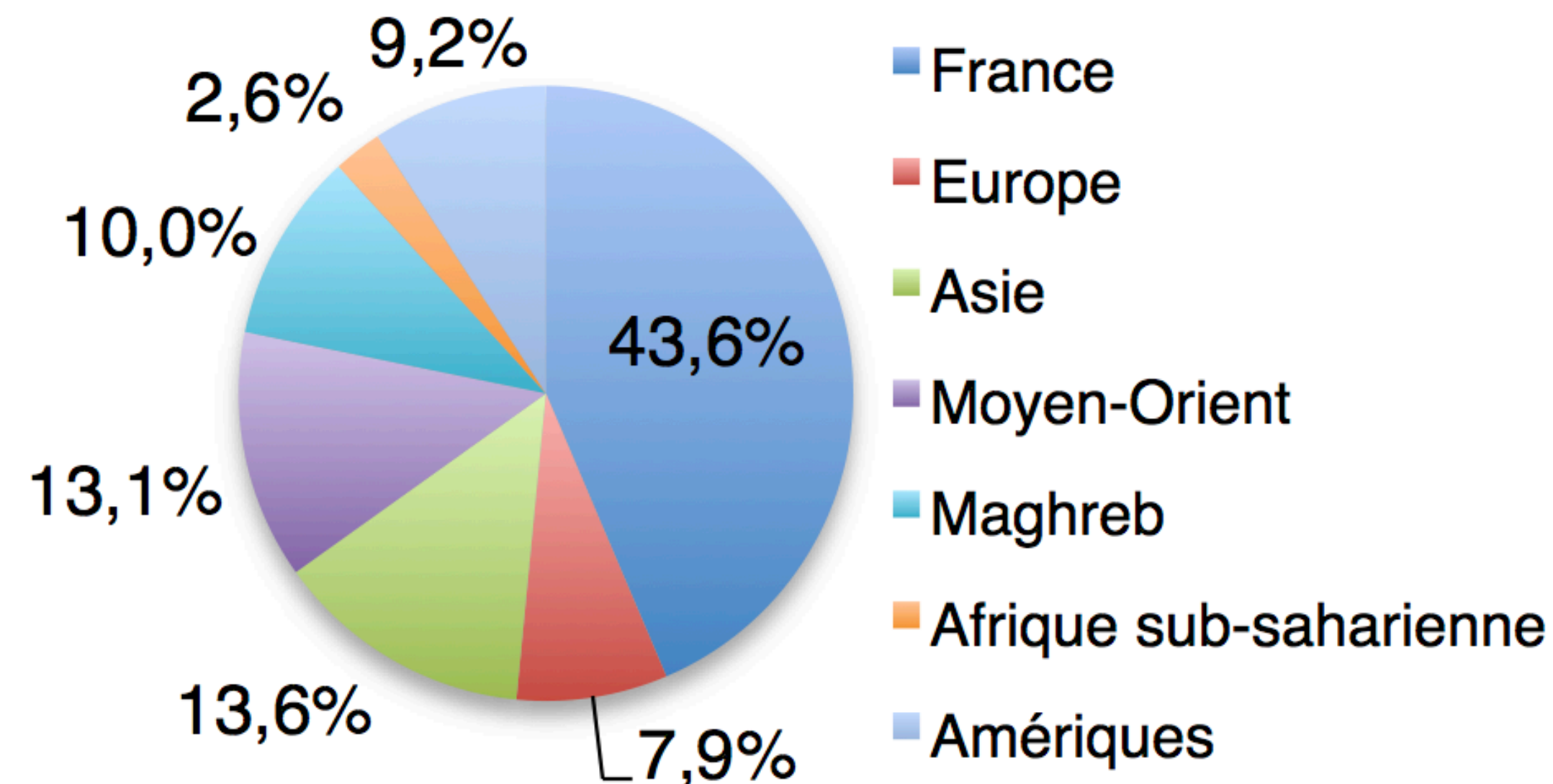
Funding/types of contract

Public law PhD contract: **74**

CIFRE (contract with a company): **8**
(25 out of all PhD students in 2022)

Joint thesis with a foreign partner: **21**
(80 out of all PhD students in 2022)

Number of international joint thesis



Governance of the GS

➤ **The Executive Board**

- Direction + Deputy Director + Coordinator + Secretary of the GS
- Implementation of missions + improvement/evolution of GS operations

➤ **The Educational Committee**

- Members of the executive board + 8 Directors of Doctoral Studies (DED in French) + responsables for the Graduate Programs SCP and IKS
- In charge of preselecting PhD candidates, organizing training courses to develop the skills of doctoral students and to prepare their professional careers

➤ **The Graduate School Council**

The GS Council

(Ministerial decision of May 25, 2016 on the doctorate)

- **The Council is composed of 23 members**
 - 12 laboratory and institution representatives
 - 2 representatives of the technical and administrative staff
 - **5 PhD student representatives**
 - 4 external personalities from the scientific or socio-economic sectors
- **Permanent invited members**
 - representatives of co-accredited institutions (Deputy President for Research or equivalent)
 - representative of the Doctoral College + responsible of GP
 - representative of the Science and Technology Faculty
 - representative of the HdF Region

The Council adopts the Graduate School's action programme

Your representatives in the GS Council

Your representatives	
Name First name	Lab/Institution
BELURIER Allane	BioEcoAgro, ULille
ALI SAID Fayida	LASIRE, ULille
LESUEUR Philippe	LOA, ULille
MOLINES Chloé	UMET, ULille
IUNG Alexis	CERI MP, IMT Nord Europe

Alternate representatives	
NAME First name	Lab/Institution
TEUFFO Florian Jildas	BioEcoAgro, ULille
SHALAK Mohamad	LASIRE, ULille
MIRI Robin	LOA, ULille
SALAUN Pauline	UMET, ULille
PASCAUD Marius	CERI EE, IMT Nord Europe

What are the missions of the GS ?

➤ To recruit PhD students and support them during their thesis

- Thesis funding + Recruitment of PhD students
- Support of PhD students



➤ Organise doctoral training and promote international mobility and outreach

- Training plan
- International or national mobility support



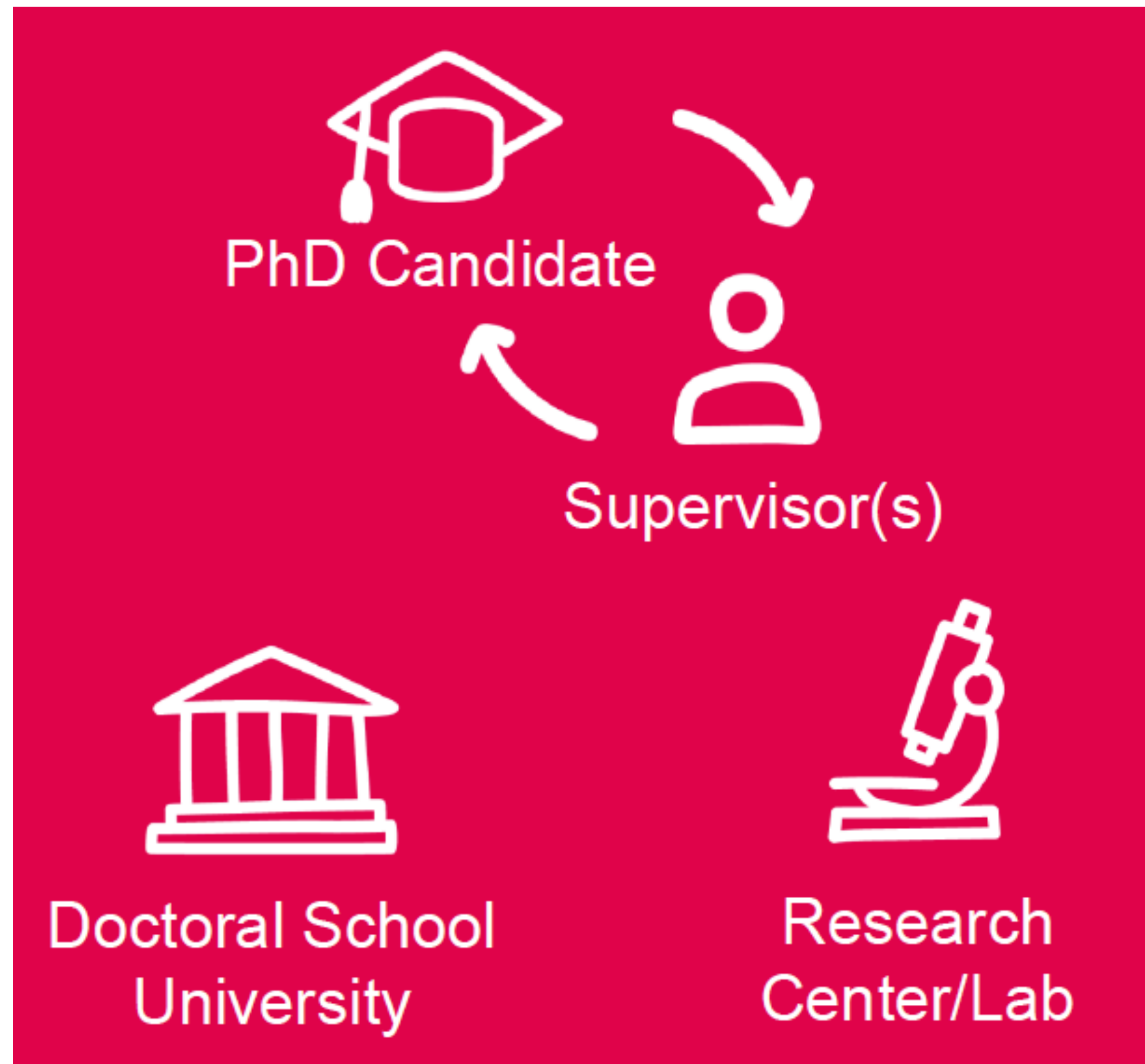
➤ Prepare the PhD student's career path

- Training courses of the Doctoral College
- Doctoriales, ChallengeDoc, DocEmploi,... (refer to « Startdoc » conference)



What is a PhD in the SMRE GS ?

A doctoral candidate is:



- **An early career researcher**

Doing full or part-time research in an academic research lab

- **Enrolled in a doctoral programme**

Offered by the GS with a supervisor providing personalized mentorship, and with an annual follow-up committee

- **Average duration**

3 (or 4) years

PhD thesis funding

➤ **Mandatory funding for the entire duration of the thesis (3 or 4 years)**

- Doctoral contract (decree of 23/04/2009, fixed-term public law employment contract) :
~ minimum 2044 € gross/month for 3 years (depending on the employer)
- Fixed-term contract (CDD) : according to the employer's salary scale
- Fellowship and/or international joint thesis : variable from one PhD student to another

➤ **Decided by the GS Council in 2022**

In case of fellowship/grants and/or international joint thesis

Until 2024 to regularly increase the salary to get closer to the doctoral contract amount during the periods spent in France

- 1300€ net/month minimum for PhD theses starting in 09/2023
- 1400€ net/month minimum for PhD theses starting in 09/2024

➤ **When the thesis goes beyond the initial duration for a good reason**

Provide financial support to the PhD student during the additional period spent in the laboratory (1300€/month from 09/2023)



Functioning of the Graduate school: some rules

- **Monitoring of the supervision rate:**
 - no more than 5 supervised or co-supervised theses per researcher with accreditation to supervise research (HDR in French)
 - no more than 3 new supervisions per year
- **Thesis monitoring:** Individual monitoring committee (see further)
- **Before each new registration:** individual interview with the Director of Doctoral Studies (DED) of your lab/scientific domain + annual validation of the training programme (credits) + **report of the individual monitoring committee**
- **Authorization to start the defence procedure:** final interview with the DED, closure of the training plan, proposal for reviewers and jury ⇒ **approximately 11 weeks before the defence**
- **Mediation procedure** in case of problems / if necessary

The Individual Monitoring Committee

- **Two meetings at the minimum (mandatory)**
 - End of the 1st year and end of the 2nd year
 - End of the 3rd year if the thesis goes beyond 3 years + one quarter
 - Two reminders from the GS secretary, in May and early September

- **Co-organised by the doctoral student and his/her supervisor**
 - Two committee members from outside the institution/lab and the doctoral project
 - Same committee members during the 3 years of the thesis (ideally)
 - Template of the committee report available on the GS website

- **Provide the report of the Committee to the GS secretary before each new registration**

Mission and activities of Directors of Doctoral Studies (DED)

Ensure the link between the Executive Board and the research domains (laboratories)

Ensure close follow-up of PhD students

- **Welcome/information to the PhD student on arrival in the laboratory**

- **Annual individual interview with PhD student before each new registration:**
 - discussion about his/her training plan
 - validation of training courses (credits)
 - progress of the thesis / possible difficulties
 - valorisation of the thesis (publication(s), oral communications, posters, etc.)

- **Final interview 11-12 weeks before the defence**
 - review of training and work
 - control of the composition of the jury



Who is your Director of Doctoral Studies (DED)?

Name of DED / Laboratory	Vincent Phalip	Xavier Vekemans	Nicolas Tribovillard	Frédéric Parol	Céline Toubin	Justine Criquet	Jean-François Paul	Sylvie Daviero	Patrick Cordier
UCCS									
UMET									
MSAP									
CERI MP									
LASIRE									
PhLAM									
LOA									
PC2A									
CERI EE									
LOG									
EcoEvoPaleo									
LGCgE									
BioEcoAgro									

The training programme

The PhD student builds his/her own program



➤ 3 domains of training

- Scientific (doctoral and master lectures, summer school, etc.)
- Transversal skills (languages, scientific writing, *scientific ethics**, *open sciences**, etc.)
- Professionalization (lectures by external speakers, Doctoriales, PhD Job Days, etc.)

➤ Obtain a minimum of 60 GS credits spread over the 3 years of the thesis

- On average: 5 credits/day and 5 credits/10 hours of classes
- About 120h total of training
- Reduced to 30 GS credits in case of international joint doctorate

➤ Specific training programme offered by the Graduate Programmes

* Mandatory : Open Online courses

The Graduate Programmes

The research activities of the SMRE laboratories are mainly related to the SCP and the IKS GP

<http://www.isite-ulne.fr/index.php/en/graduate-programme-science-for-a-changing-planet/>

<http://www.isite-ulne.fr/index.php/en/graduate-programme-information-knowledge-society/>

Science for a Changing Planet (SCP) Graduate Programme



Coordinators:
Pr. Sophie Duquesne
Pr. Céline Toubin

Information and knowledge Society (IKS) Graduate Programme



Coordinator:
Pr. Marc Lefranc

Thematic and enhanced (Master + PhD) training:

- a dedicated training plan
- a summer school conference
- some specific events, etc.

Since 2021 some PhD students are included in the Graduate Programmes

For additional information see the presentation by Pr. M. Lefranc, C. Toubin and S. Duquesne

The defence procedure



➤ **How to obtain the PhD degree:** Conditions fixed by the SMRE GS

- 1 scientific publication (minimum)
 - Oral(s) in international workshop(s)
 - Training program (about 120h total)
- Checked by the DED during the final interview
- A peer review thesis dissertation ⇒ 2 favourable reports required
 - An oral defence

➤ **After the defence, the doctoral student takes an oath**

« In the presence of my peers. With the completion of my doctorate in [research field], in my quest for knowledge, I have carried out demanding research, demonstrated intellectual rigour, ethical reflection, and respect for the principles of research integrity. As I pursue my professional career, whatever my chosen field, I pledge, to the greatest of my ability, to continue to maintain integrity in my relationship to knowledge, in my methods and in my results. »

Professional integration of PhD 2018 after 3 years (in 2021)

	En emploi	En recherche d'emploi	Autre situation ²	Total	Taux d'insertion ³	Taux de chômage ⁴
SFA-STSI : Sciences, technologies, sciences pour l'ingénieur	93%	5%	2%	100%	95%	5%
SFA-SSM : Sciences et structures de la matière	94%	5%	1%	100%	95%	5%
SFA : Sciences fondamentales et applications	94%	5%	1%	100%	95%	5%
SVBS : Sciences de la vie, biologie, santé, STAPS	86%	4%	10%	100%	95%	5%
ALLSHS : Arts, lettres, langues, sciences humaines et sociales	85%	8%	7%	100%	91%	9%
DEG : Droit, économie, gestion	93%	-	7%	100%	100%	-
Ensemble des docteurs 2018 (année civile)	90%	5%	5%	100%	95%	5%

Professional integration of PhD 2018 after 3 years (in 2021)

	Taux d'insertion ¹	Taux d'emploi cadre ²	Taux d'emploi à durée indéterminée ³	Taux d'emploi Postdoc ⁴	Taux d'emploi à temps plein ⁵	Revenu mensuel net médian ⁶
SFA-STSI : Sciences, technologies, sciences pour l'ingénieur	95%	100%	80%	6%	95%	2 500 €
SFA-SSM : Sciences et structures de la matière	95%	99%	71%	27%	99%	2 350 €
SFA : Sciences fondamentales et applications	95%	99%	76%	15%	97%	2 444 €
SVBS : Sciences de la vie, biologie, santé, STAPS	95%	95%	53%	32%	96%	2 725 €
ALLSHS : Arts, lettres, langues, sciences humaines et sociales	91%	98%	63%	16%	78%	2 300 €
DEG : Droit, économie, gestion	100%	100%	87%	5%	92%	2 562 €
Ensemble des docteurs 2018 (année civile)	95%	98%	70%	18%	93%	2 500 €

Employer's business sector

	Secteur académique ¹	Secteur public hors académique	Secteur privé R&D	Secteur privé hors R&D et hors académique	Total
SFA-STSI : Sciences, technologies, sciences pour l'ingénieur	41%	8%	13%	38%	100%
SFA-SSM : Sciences et structures de la matière	39%	8%	8%	45%	100%
SFA : Sciences fondamentales et applications	40%	8%	11%	41%	100%
SVBS : Sciences de la vie, biologie, santé, STAPS	50%	9%	12%	29%	100%
ALLSHS : Arts, lettres, langues, sciences humaines et sociales	50%	34%	-	16%	100%
DEG : Droit, économie, gestion	57%	8%	5%	30%	100%
Ensemble des docteurs 2018 (année civile)	46%	12%	9%	33%	100%



Communication tools

L'ED SMRE souhaite renforcer sa communication et la valorisation des travaux des doctorantes et doctorants via les réseaux sociaux, actuellement via :

The SMRE Doctoral School wishes to strengthen its communication and promotion of PhD students' work, currently through:

LinkedIn ⇒ <https://www.linkedin.com/school/ed-smre/>

Twitter ⇒ https://twitter.com/ED_SMRE

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l'Ecole Doctorale Sciences de la Matière, du Rayonnement et de l'Environnement

Ecole doctorale « Sciences de la Matière, du Rayonnement et de l'Environnement » (ED SMRE 104)
Enseignement supérieur · Villeneuve d'Ascq Cedex · 306 abonnés

EDSMRE Suivre

Ecole Doctorale SMRE
@ED_SMRE

Ecole Doctorale Sciences de la Matière, du Rayonnement et de l'Environnement (ED 104)

📍 Lille, France eds mre.univ-lille.fr 📅 A rejoint Twitter en mars 2013

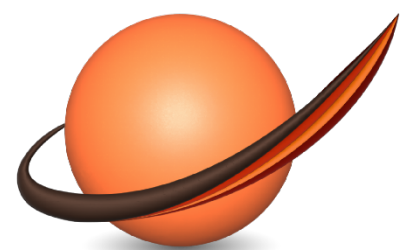
242 abonnements 188 abonnés

Tweets Tweets et réponses Médias J'aime

Tweet épinglé

Ecole Doctorale SMRE @ED_SMRE · 1 nov. ...

📅 Suivez les prochaines soutenances des doctorantes 🎓 et doctorants 🎓 @ED_SMRE inscrits dans les établissements @RechercheUilille, @Centralelille & @IMT_NordEurope adum.fr/as/ed/calendri...



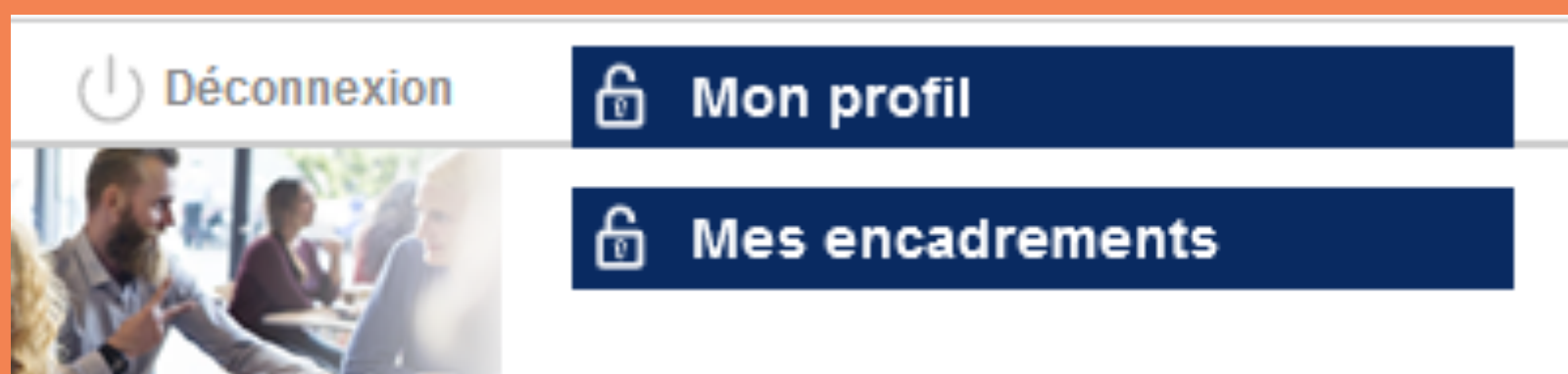
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Communication tools

Vous pouvez nous aider en : | You can help by:

- vous abonnant à nos pages | subscribing to our pages
- nous identifiant sur vos messages sur ces réseaux | tagging us if you post on these networks
- nous informant de vos comptes via ADUM si vous en avez | inform us of your accounts through ADUM if you have any

En haut à droite de votre page ADUM
Top right of your ADUM page



Mon Profil - Mme Véronique RIFFAULT n° [REDACTED]

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- **E-mail** : veronique.riffault@imt-nord-europe.fr
- **Laboratoire** : CERI EE Centre d'Enseignement de Recherche et d'Innovation Energie Environnement
- **Etablissement** : IMT Nord Europe
- **Ecole Doctorale** : Sciences de la Matière du Rayonnement et de l'Environnement n°104
- **identifiant ORCID** : <https://www.orcid.org/0000000155720871>
- **identifiant IdHAL** : <https://cv.archives-ouvertes.fr/veronique-riffault>
- **Compte LinkedIn** : <https://www.linkedin.com/in/vriffault/>
- **Compte Twitter** : <https://twitter.com/VRiffault>
- **Compte ResearchGate** : https://www.researchgate.net/profile/Veronique_Riffault
- **Compte Clarivate** : <https://publons.com/researcher/2762549/veronique-riffault/>

Thank you for your attention

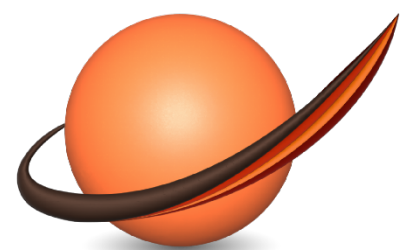
Any questions?



Graduate School - 104

Sciences of Matter, Radiation
and Environment





Sector of activity of PhD 2016 after 3 years (in %)

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Discipline	Docteurs dans le secteur académique	Docteurs dans le public hors secteur académique	Docteurs dans la R&D privée	Docteurs dans le privé hors secteur académique et R&D
Ensemble	47,0	15,2	19,4	18,5
Sciences et leurs interactions	41,1	7,3	32,1	19,5
Mathématiques et leurs interactions	51,2	14,0	20,1	14,7
Physique	45,5	8,3	28,4	17,8
Sciences de la terre et de l'univers, espace	65,0	9,7	10,8	14,5
Chimie et sciences des matériaux	36,4	8,9	32,3	22,5
Sciences pour l'ingénieur	32,5	5,2	39,0	23,4
Sciences et TIC	38,4	4,7	39,0	17,8
Sciences du vivant	59,0	10,1	15,5	15,4
Biologie, médecine et santé	59,1	9,7	15,6	15,6
Sciences agronomiques et écologiques	58,6	12,1	14,7	14,6
Sciences humaines et humanités	46,8	34,8	2,8	15,6
Langues et littératures	50,7	41,8	0,0	7,5
Philosophie et arts	44,1	33,7	4,4	17,8
Histoire, géographie	45,7	34,6	2,6	17,1
Sciences humaines	45,8	29,6	4,6	20,0
Sciences de la société	49,7	22,2	3,4	24,6
Sciences économiques et de gestion	58,3	17,1	4,7	19,9
Sciences juridiques et politiques	39,2	25,2	1,2	34,4
Sciences sociales, sociologie, démographie	49,4	27,6	4,3	18,7

Source : enquête IPDoc 2019 - MESRI-SIES.