

Information meeting 2020-2021

Doctoral school IAEM Lorraine

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Director of the Doctoral School IAEM Lorraine





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Location : ● Maison du doctorat – Campus ARTEM
2 rue Léonard de Vinci, Bâtiment Recherche Mines Nancy
BP 14234 – 54042 Nancy Cedex
● ENSEM bureau **116 jaune**

More details?

Personal Web pages : <http://www.cran.univ-lorraine.fr/didier.maquin>

Laboratory web site : <http://www.cran.univ-lorraine.fr>

- 1 BioSE (Biologie, santé et environnement)
- 2 C2MP (Chimie, mécanique, matériaux, physique)
- 3 HN-FB (Humanités nouvelles - Fernand Braudel)
- 4 IAEM (Informatique, automatique, électronique-électrotechnique, mathématiques)
- 5 SIMPPÉ (Science et ingénierie des molécules, des procédés, des produits et de l'énergie)
- 6 SIRENa (Science et ingénierie des ressources naturelles)
- 7 SJPEG (Sciences juridiques, politiques économiques et de gestion)
- 8 SLTC (Sociétés, langages, temps, connaissances)

≈ 1850 PhD students

▶ Disciplines

Computer Science, Automatic Control, Electrical Engineering, Mathematics and Architectural Sciences

▶ Abutment

11 research laboratories or research teams

co-accreditation with CentraleSupélec – association with INRIA Grand-Est
around 560 academics or researchers of which 300 HdR (research directors)

▶ Headcount (January 2021)

343 registered PhD students

(1Y: 75; 2Y: 94; 3Y: 95; 4Y: 57; 5Y: 19; 6Y: 2)

▶ Average annual flow of 75-80 PhD diplomas (6 mentions) – 75 last year

- computer science;
- automatic control, signal and image processing;
- mathematics;
- electrical engineering;
- electronic systems;
- architectural sciences.

- 1 LORIA (CNRS INRIA UL) UMR 7503 (97)
- 2 IECL (CNRS INRIA UL) UMR 7502 (83)
- 3 CRAN (CNRS UL) UMR 7039 (55)
- 4 LGIPM (UL) EA 3096 (14)
- 5 GREEN (UL) EA 4366 (13)
- 6 LCOMS (UL) EA 7306 (13)
- 7 IJL (UMR CNRS UL) UMR 7198 – Mesures et Architectures Electroniques team (9)
- 8 UMI GeorgiaTech (CNRS GeorgiaTech) UMI 2958 (3)
- 9 IADI (UL INSERM) U947 (3)
- 10 MAP (CNRS MCC) UMR 3495 – CRAI (EAN Nancy) (2)
- 11 LCFC (UL Arts et Métiers) EA 4495 (1)

Total HdR 293

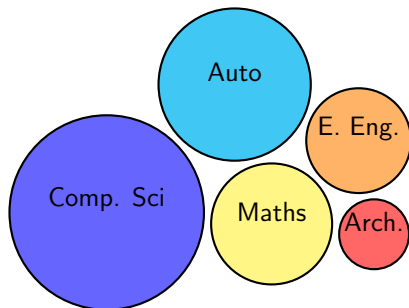
Distribution of 2020 PhD

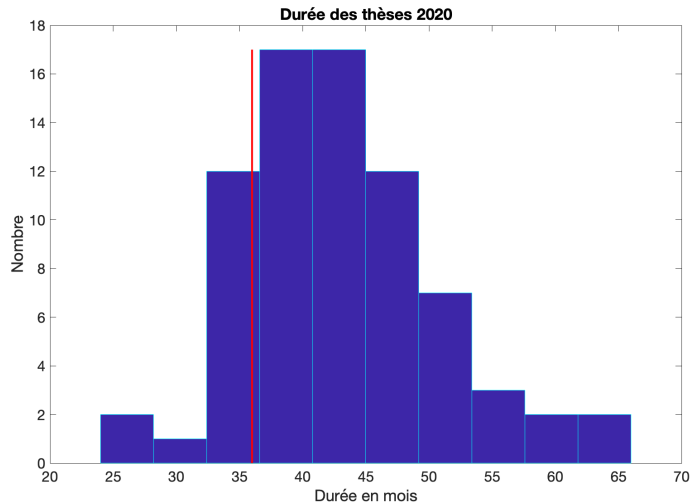
By research unit

Loria	CRAN	IECL	GREEN	LGIPM	LCOMS	LCFC	IJL	IADI	G-Tech
28	12	12	9	4	3	2	2	2	1

By speciality

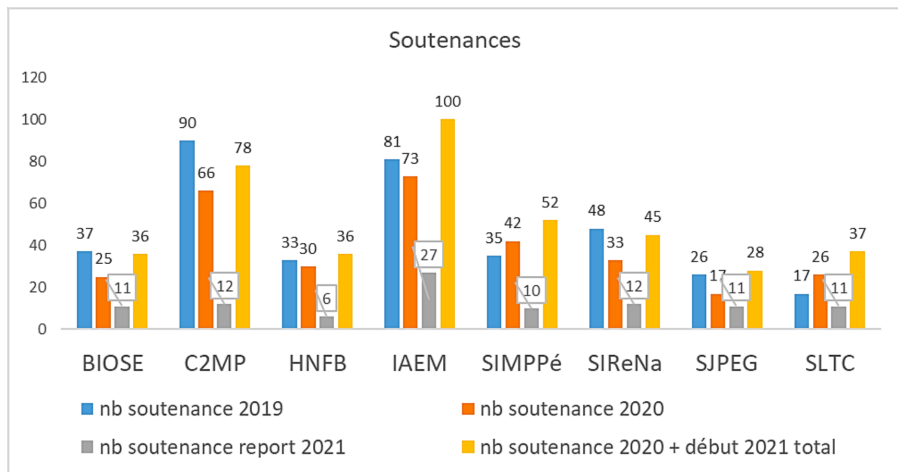
Comp. Sci.	Auto	Maths	Elect. Eng	Electron. Sci.	Arch. Sci.	Total
31	19	12	9	4	0	75
41%	25%	16%	12%	5%	0%	100%





$43\% \leq 40$ months mean = median = 43 months

Figures from all the EDs



defenses 2019 : 367, # defenses 2020 + report : ~ 412

Every year, the Université de Lorraine conducts graduate integration surveys. The latest survey is based on data collected from December 2019 to April 2020 from PhD graduates during the calendar year 2016 (from January 1 to December 31). They were asked about their professional situation on December 1, 2019. You can find the results of the survey at:

<http://insertion.univ-lorraine.fr/doctorat/2016/Doctorat.htm>

This link is also accessible from the ED website, item “doctoral student” (doctorants).

You can also access the latest evaluation report of the Doctoral School by HCERES:

<https://hal-hceres.archives-ouvertes.fr/hceres-02029731/document>

MDD - Maison du Doctorat à Metz

Maison de l'université - rez-de-chaussée
Ile du Saulcy 57045 Metz cedex 1

mettis ligne B : arrêt Saulcy





MDD - Maison du Doctorat à Nancy

campus Artem - bâtiment recherche Mines Nancy
2 rue Léonard de Vinci BP 14234 54042 Nancy cedex

tram T1 : arrêt campus Artem
bus ligne 7 : arrêt campus Artem



Doctoral school : IAEM Lorraine



Decree of May 25, 2016 related to doctoral education, article 2

“Under the responsibility of the accredited institutions, doctoral schools or doctoral colleges organise the training of doctoral students and prepare them for their professional activity at the end of the doctoral training.”

- ▶ Implement an admission policy for PhD students;
- ▶ Organize scientific exchanges between PhD students and with the scientific community;
- ▶ Ensure that each doctoral student receives training in research ethics and scientific integrity;
- ▶ Ensure a quality procedure to training (setting up individual monitoring committees for the PhD student);
- ▶ Define and implement support measures for pursuing the professional activity;
- ▶ Contribute to European and international openings;
- ▶ Formulate an opinion on requests for the attachment of research units or research teams to the doctoral school

Doctoral school organization

- ▶ A director: Didier [Maquin](#)
(appointed in 2017, renewed for 2018-2023, possibly in operation until 2024)
- ▶ Executive committee – 9 membres ([current management](#))
- ▶ Four mention commissions
 - Informatique (Laurent [Vigneron](#) & Pierrick [Gaudry](#)) [change coming soon](#)
 - Automatique (Eric [Levrat](#) & Nathalie [Sauer](#))
 - Electronique – Electrotechnique (Amar [Rouane](#) & Jean [Lévêque](#))
 - Mathématiques (Frédéric [Robert](#) & Victor [Nistor](#))
- ▶ Council – 20 membres ([the wise men – or women ! –](#))
- ▶ Three support secretaries
 - Educational administrator: Sabrina [Ferry](#)
 - School administrator (Nancy): Souad [Boutaguermouchet](#)
 - School administrator (Metz): Stéphane [Lebreton](#)

Doctoral School Organization – The Council

12 members representing the institutions among which:

- ▶ the 8 mention commission responsables
- ▶ Doctoral school partner representatives
 - Konrad [Szafnicki](#) (Head of the Metz CentraleSupélec Campus)
 - Bruno [Levy](#) (Head of the INRIA Grand Est Research Center)
- ▶ 2 administrative staff representatives
 - Sabrina [Ferry](#) (Educational administrator)
 - Souad [Boutaguermouchet](#) (School administrator)

4 PhD student representatives (titular / alternate)

- ▶ Olivier [Lindamulage de Silva](#) / Baparou [Danhané](#) (Automatic control)
- ▶ Ghazi [Hajiri](#) / Rémi [Dorget](#) (Electrical Engineering)
- ▶ Pierre-Antoine [Rault](#) / Dylan [Marinho](#) (Computer sciences)
- ▶ Clara [Derand](#) / David [Zheng-Xu](#) (Mathematics)

and 4 external personalities

- ▶ Dominique [Daloz](#) (Head of the new doctoral school C2MP: Chimie, Mécanique, Matériaux, Physique)
- ▶ Rezak [Ayad](#) (Head of the Doctoral School SNI: Sciences du Numérique et de l'Ingénieur de l'Université de Reims Champagne-Ardenne)
- ▶ Pierre-Jean [Krauth](#) (ArcelorMittal – Head of Measurement and Control Cluster)
- ▶ Benoît [Marchand](#) (CEA Tech – FFLOR platform: Future of Factory Lorraine)

Main tasks of the executive committee

- ▶ Examine candidates' admission files and registration renewal beyond the fourth year, after examination by the mention commissions
- ▶ Validate the jury proposal made by your thesis director and provide a recourse function in case of difficulty in the management of this jury
- ▶ Define the training courses to set up
- ▶ Advise and assist the Director in what concerns animation, communication, ...

The mention commissions

- ▶ **Commission perimeter**: determined by the attachment of each laboratory
- ▶ **Commission members**: holders of a HdR (“Habilitation à diriger des recherches”)
- ▶ **Operation**: general meeting and representative board
- ▶ **Current decisions**: representative board ou general meeting depending of the internal arrangements
- ▶ **Role**
 - Instruction of admission to doctoral training
 - Follow-up of the training of PhD students (progress of the thesis, individual assessment of validated courses in terms of credits, renewal of registration in 2nd and 3rd year, exceptional registrations in 4th or 5th year)
 - Scientific evaluation of thesis work (choice of reviewers, dissertation committee, examination of thesis reports, opinion on the defense)

The College of Doctoral Schools (in french *Collège Lorrain des Ecoles Doctorales: CLED*) is a coordination structure of the 8 Doctoral Schools of the University of Lorraine.

Its missions consist of proposing to the Scientific Council:

- ▶ a policy on doctoral training;
- ▶ to strengthen the visibility, attractiveness and transversal positioning of the doctorate;
- ▶ to improve the organisation and management of doctoral training.

Under the chairmanship of Clotilde Boulanger, Deputy Vice-President for Doctoral Strategy, the CLED Board is composed of the directors of doctoral schools, doctoral students (one per school council and one for the Scientific Council) and two representatives of the Research and Development Department.

① Establishment of the individual monitoring committees (since 2012)
now included in the decree of May 25, 2016 (Article 13)

► Composition

- At least two persons (members of the Université de Lorraine or external to the Université de Lorraine – without any link with the thesis supervision, proposal : 1 “scientific” evaluator + 1 “HR” human resources evaluator (e.g. team leader in a research lab)
- the thesis supervisor and co-supervisors cannot be involved

► Mission

Audition the candidate (face-to-face or video-conf) and prepare an annual report

- 1 report at $t_0 + 12$ month, to evaluate the overall feasibility of the thesis subject and to propose a possible thematic re-orientation (optional)
- 1 report before each administrative registration from the third, to assess the progress of the scientific work and to estimate the time required to complete the PhD defense (mandatory)

① Individual monitoring committee

The College of Doctoral Schools has very recently adopted a common text for all the Doctoral Schools.

- ▶ The composition of your individual monitoring committee must be declared using your individual account on ADUM at late six months after your first registration. → for all of you before June 2021.
- ▶ The educational calendar is now more strict. Whatever the date of your first enrollment in the PhD cycle, the deadline for your re-enrollment for the next university year 2021-2022 is fixed to September 30, 2021.
- ▶ Be careful to obtain the report from your individual monitoring committee before that date. Remind your thesis supervisor!
- ▶ Advice : Convene your committee in June or early July.
- ▶ The report of your committee must be uploaded on ADUM by July 14.

② Individual Training Agreement (article 12 of the decree)

Article 1: The PhD student

Identity (surname, name, date of birth, email, address, n° INE)

Article 2: The doctoral project

Doctoral school, mention, subject, research team, thesis supervisor

Article 3: Running conditions of the doctoral project

Working time, remuneration, type of contract

Provisional timetable of the research project (revisable)

Modalities of supervision and environment (number of meetings, regular seminars)

Laboratory part (pre-filled)

Doctoral school part (pre-filled)

Université de Lorraine part (pre-filled)

② Individual Training Agreement

Article 4: Professional project of the PhD student

Description and justification of the choice

Article 5: Training of the PhD student

Formalization of the individual plan

Article 6: Promotion of the research works

Confidentiality

Promotion objectives

Article 7: Description of the thesis in preparation

Title, abstract, key words (french and english)

Signatures of the Phd student and his thesis supervisor

- ▶ The College of the Doctoral Schools has been working for a year to standardize the practices of the various doctoral schools ([common scheme for all the doctoral schools](#)).
- ▶ The main objective is to comply with the provisions of the decree, to align with the practice of other “major” universities and to offer all the necessary tools to PhD students to carry out their work and prepare their professional future
- ▶ A credit system has been adopted and the trainings have been gathered in three groups
 - Scientific valorization
 - Thesis support
 - Post-thesis preparation
- ▶ 30 credits will be necessary to be authorized to defend his thesis

LA FORMATION DOCTORALE A L'UNIVERSITE DE LORRAINE

LA THÈSE

Travail personnel aboutissant à la rédaction d'une thèse, accompagné par des encadrants



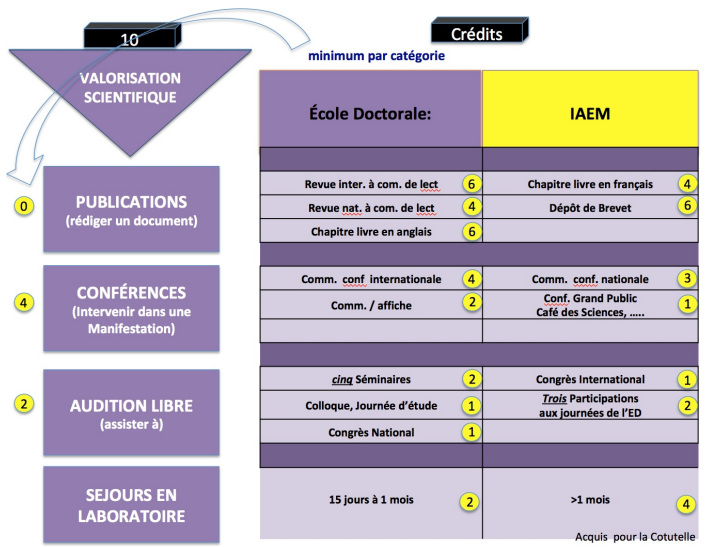
UN PARCOURS de FORMATION

Validé par l'obtention de 30 crédits

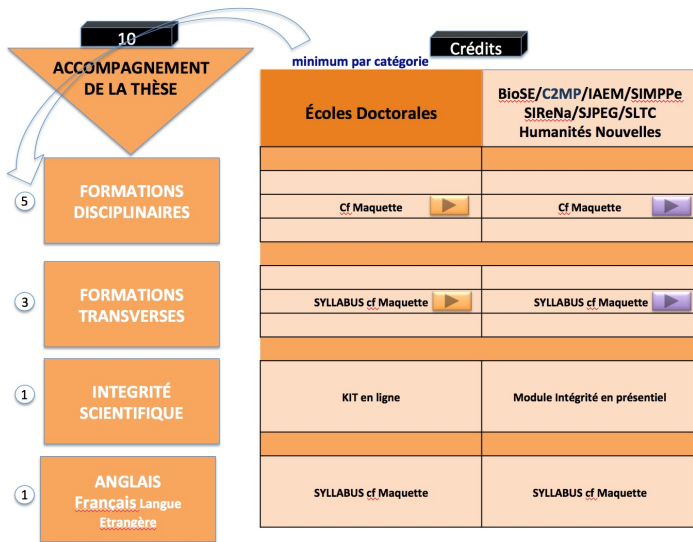
parmi les items suivants :

VALORISATION SCIENTIFIQUE (10 crédits minimum)	ACCOMPAGNEMENT DE LA THÈSE (10 crédits minimum)	PREPARATION A L'APRES-THÈSE (5 crédits minimum)
Publications	Formations disciplinaires 5	MODULES - Aide à l'insertion prof. - Enseignement supérieur - Innovation, Entreprise - Médiation scientifique Possibilité de parcours pédagogiques et préparation à des LABELS
Conférences	Compétences transverses 3	Séjours en Entreprise ou Collectivité
Auditions libres	Intégrité scientifique 1	Responsabilités collectives
Séjours en laboratoire	Langues : Anglais-FLE 1	
+ 5 crédits flottants (fonction de l'ED de rattachement)		

PhD student duties – Scientific valorization



PhD student duties – Thesis support



- ▶ Disciplinary trainings: 2 modules of about 20h each (2×2.5 credits)
- ▶ Transversal trainings: each module has its own number of credits

Internal training offer:

<http://www.adum.fr/as/ed/lorraine/formations.pl?site=lorraine>

- ▶ Fi4 305B Culture of scientific integrity/ *Culture de l'intégrité scientifique* (Mandatory: May 25, 2016 decree (article 3.3) → MOOC)
- ▶ For foreign speaker students: French as foreign language module(s)
- ▶ For french speaker students: The presentation of an English language level certificate is required to validate the credits
- ▶ For PhD students funded in whole or in part by the Grand Est Region, the participation to “Doctoriales” is mandatory

FORMATIONS TRANSVERSES

(3 crédits minimum)

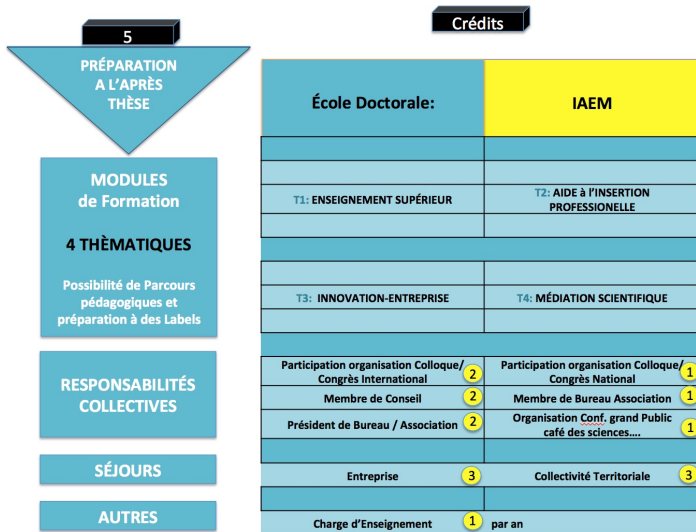
THÈME DOMPTEZ LA DOC		THÈME COMMUNICATION	
①	Trouver et organiser sa documentation	②	Formation à la communication orale et corporelle en milieu professionnel (Nancy)
①	Rédiger, valoriser et publier son travail de recherche	②	Développer ses capacités à communiquer et à manager
THÈME HYGIÈNE ET SECURITÉ		½	Outils numériques pour réaliser des présentations
½	Sauveteur Secouriste du Travail (SST)	①	Maîtriser les situations interculturelles : les comprendre, gérer les interactions au sein d'une équipe, prendre conscience des présupposés scientifiques de sa culture
½	Formation à la culture de prévention	THÈME PROJETS	
THÈME PROJETS		①	Montage de projets Européens
①	Découverte des propriétés intellectuelles (FI4 235)	② à ④	Gestion de projet (MOOC) 18 à 36h (parcours classique ou avancé).
①	Droit et numérique		

Offre à consolider dans les 6 mois

PhD student duties – Thesis support

FLE				
①	FI4 132 A - Vivre en France, à Nancy (semaine intensive)			
① à ②	FI4 131 A - Français de la vie quotidienne (débutants) Nancy/Metz			
① à ②	FI4 131 B - Français Langue étrangère : oral, niveau (intermédiaire) Nancy/Metz			

PhD student duties – Post-thesis preparation



- ▶ This new system is rather complicated!
- ▶ The credits allocated to modules proposed by the internal (UL) training offer are fixed and are the same for all doctoral schools
- ▶ For the other modules, the doctoral school remains in charge of the allocation of credits

Don't panic and don't be afraid

- ▶ This new system requires a running-in period and an evaluation
- ▶ The main objective of this reform is clearly not to force you to follow (too) many training modules but to offer you what is necessary for the accomplishment of your thesis work and to force you to think about the after-thesis
- ▶ Credits will be allocated for mandatory actions (e.g. your participation today to this meeting)

Annual PhD students conference IAEM Lorraine
(unfortunately cancelled in 2020)

In general, a half day in October. PhD students beginning their 3rd year are asked to prepare a poster describing their research work. These posters are submitted through a conference management system.

Use of EasyChair (free version)

In 2019, 58 posters were submitted

Each poster is “rated” by two reviewers of the program committee

Participation in this event will result in the awarding of credits

Some advices

If you are facing any difficulty of any kind (personal or professional) or if you are in conflict with your coaching many people can probably help you:

- ▶ First, talk to your supervisor, your research team/department responsible, your laboratory director
- ▶ Second, get in touch with the persons in charge of the mention commissions, or with your elected PhD student representatives on the board of the doctoral school
- ▶ Finally, get in touch with me via Sabrina Ferry.

Do not stay inactive and do not let a situation get worse
(especially if it's a tense relationship with your supervisor)

Keep your ADUM profile up-to-date (May 25, 2016 decree (article 15))

- ▶ Don't forget to enter your @univ-lorraine.fr email address in your profile
- ▶ Regularly update your scientific production
- ▶ Upload your training and professional module certificates
- ▶ Upload the reports of your monitoring committee

Regularly consult the different web sites

<http://doctorat.univ-lorraine.fr/fr>

<http://www.adum.fr/as/ed/lorraine/formations.pl?site=lorraine>

Prepare your after-thesis - think about your future

DocPro: The professional profile of PhD-holders

<http://www.mydocpro.org/en>

Maintain your (professional) network (during and after your PhD)

<https://www.docteurs-spi.org/>

Join the IAEM Doctoral School LinkedIn network

<https://www.linkedin.com/in/doctoral-school-iaem-lorraine-29a35010b/>

