

Welcome day of Sciences and Engineering DS

NOVEMBER 18TH, 2021



Sciences and Engineering Doctoral School (SI Doctoral School)

10 research laboratories in Experimental sciences

Physical : LPMS et LERMA

Chemistry : LPPI , Biocis

Biology : ERRMECe , LAMBE

Geosciences : GEC

Civil Engineering: L2MGC

Electrical Engineering: SATIE

Applied electronics, mechanics, mechatronics : QUARTZ

In 2020 – 2021:


- 132 researchers attached to SI Doctoral School
- 89 thesis supervisors attached to the SI Doctoral School including 61 HDR
- 124 PhD students enrolled
- 29 thesis defended in 2020

SI Doctoral School Board

20 members including:

- 10 laboratory directors
- 2 BIATSS
- 4 PhD students
- 4 external members

Elected students

- 
- | | |
|---------------------|--|
| - Amel Benabdi | amel.benabdi@cyu.fr |
| - Abdeslam Benamara | abdeslam.benamara@cyu.fr |
| - Edwin Bumenn | edwin.bumenn@cyu.fr |
| - Guy Gouarin | guy.gouarin@cyu.fr |

Bureau

François Dulieu (LERMA), Nicolas Wilkie-Chancellier (SATIE), Sophie Cantin (LPPI)

→ At least 3 meetings/year

Next meetings : November 26th 2021; April 15th 2022 and June 24th 2022

Roles and responsibilities

The Doctoral College and the Doctoral School:

- Ensure good financial, material and environmental conditions
- Contribute to the scientific exchanges between the DS laboratories and external researchers (conferences, mobility)
- Provide a training program
- Promote and follow the professional integration of the PhD students

The laboratory director :

- Contributes to the scientific and material integration of the PhD student
- Is the referent person for the organization of the thesis committees
- Is the first person to contact in case of conflict

Roles and responsibilities

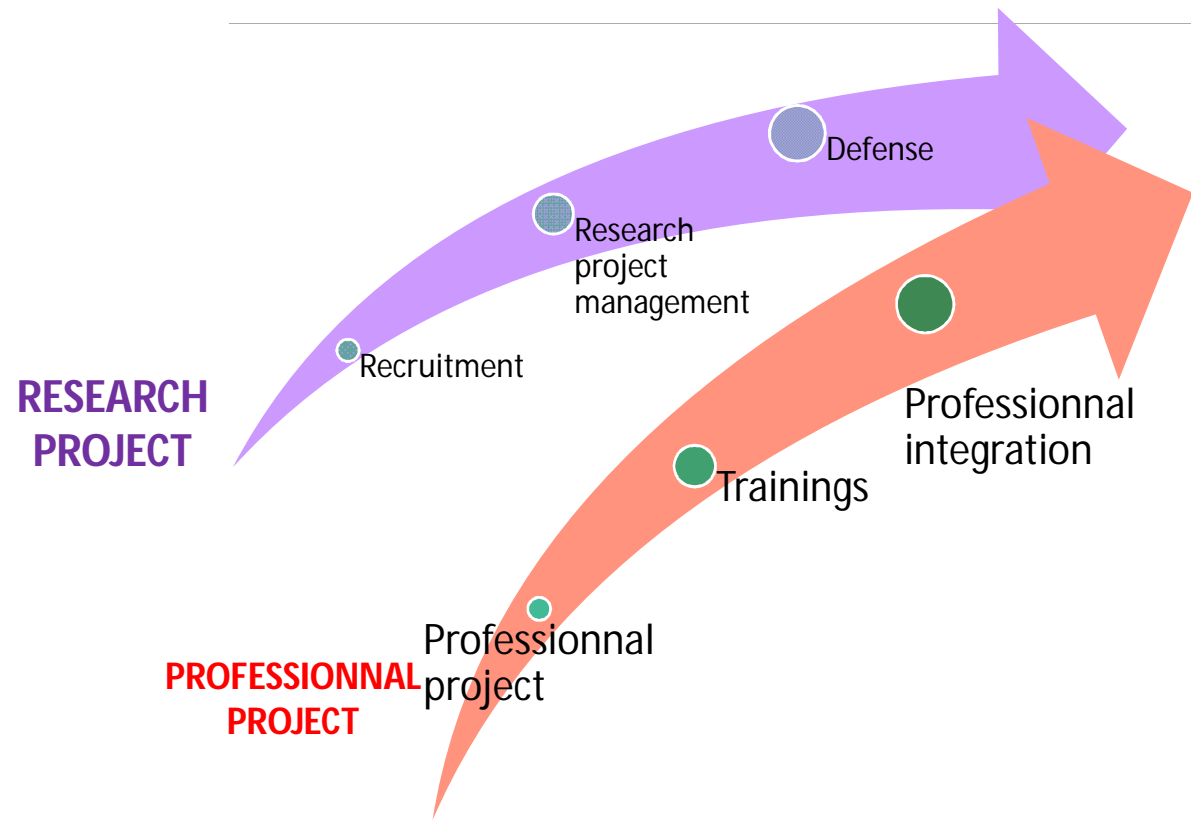
The supervisors :

- Define the objectives and work schedule
- Accompanies the thesis work of the PhD student
- Organize regular meetings
- Ensure the dissemination of the research results
- Is concerned with the professional career of the PhD student

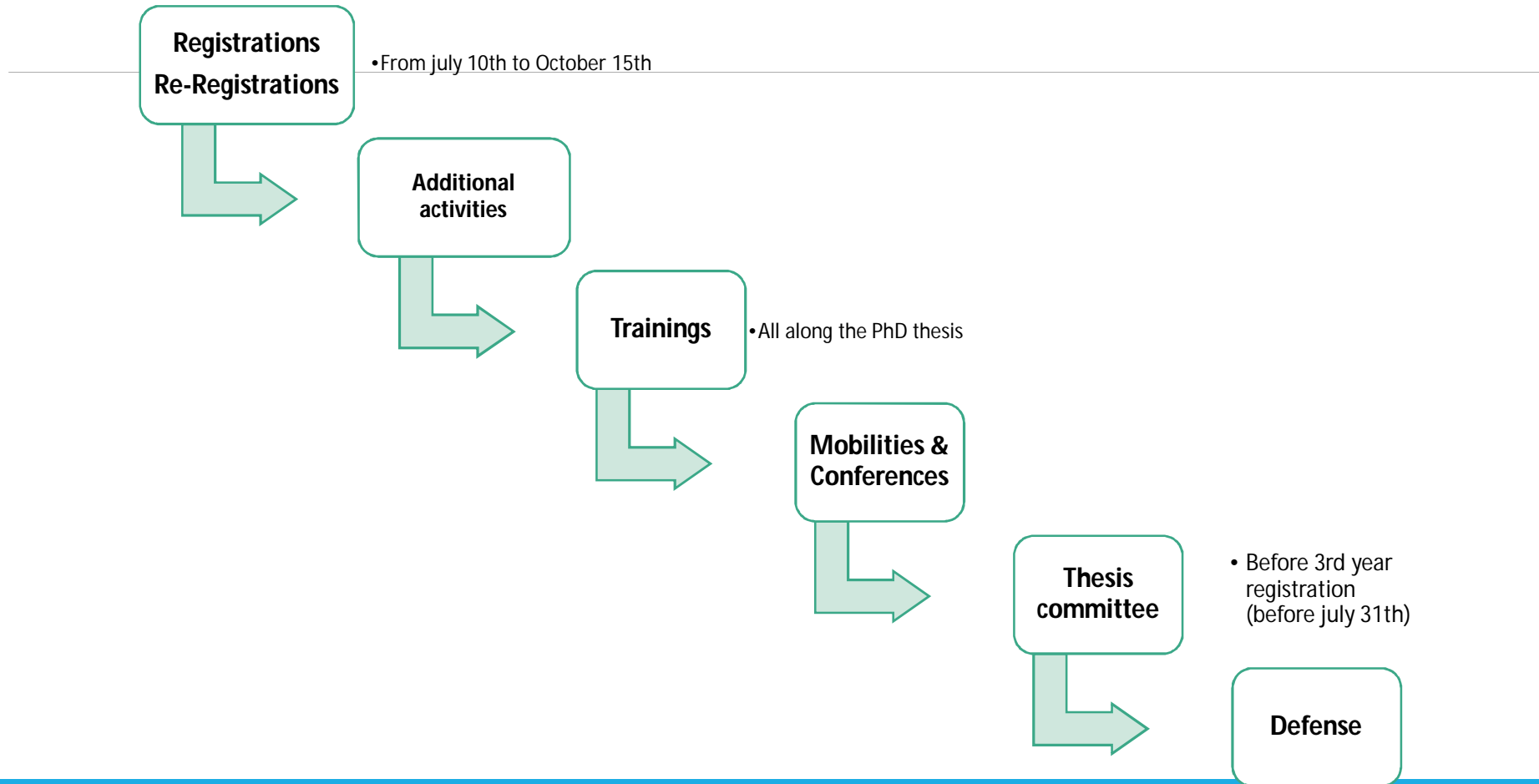
The PhD student :

- Implements all the means required to complete the thesis project
- Regularly informs his/her supervisors of the research results and possible difficulties
- Produces written documents (laboratory notebook, reports...)
- Follows the formations proposed by the Doctoral College

1.THE THESIS PROJECT



2.The key steps of the PhD thesis



The key steps of the PhD thesis

□ Registration

In 2^d or 3rd year : july to october 15th

Doctoral contract : before september 15th

Other : before october 15th

4th year or more (not recommended) : before october 15th

□ Thesis committee

Mid-term committee : - before july 31th of the 2d year (required for registration in the 3rd year)
- to be organized by the thesis supervisor

Credits : 2.5 ECTS

Committee members : - an external referee (designed by the thesis supervisor)
- one representative of the Doctoral School
+ supervisors and laboratory director

• **Objectives:**

- To check on the progress and scientific quality of the thesis' work
- To ensure that the PhD thesis goes smoothly (supervising, work environment)
- To ensure the dissemination of the research results (articles, conferences)
- To discuss the professional project

The key steps of the PhD thesis

□ Mid-term committee :

- **Before : The PhD student :**

- writes a report of about 20 pages (without supervisor's correction), sends it to the committee at least 10 days before the planned committee
- writes a work schedule for the 3rd year
- prepares a 30min oral presentation

- **Committee progress:**

- Oral defense + questions/comments
- Interview of the PhD student with the Doctoral School representative and the referee (without supervisors and lab director)
- Interview of the supervisors with the Doctoral School representative and the referee (without PhD student)
- Recommendations of the committee

The key steps of the PhD thesis

☐ All along the thesis:

- **Formations** (in or off-catalogue)
- **Financial support from the Doctoral School for (to be discussed with supervisors and lab director)**
 - Conference participation
 - mobility in a foreign laboratory for experiments or analyses

(Ordre de mission nécessaire)

• **In case of difficulties/conflict:**

The thesis committee can be convened / The head of Doctoral School can be contacted

☐ Thesis defense:

- Before December 31th of the 3rd year to prevent registration in 4th year
- The manuscript and jury/date of defense have to be deposited to the Doctoral School (via ADUM) **10 weeks before the date of defense.**
- **Qualifications : Defense before November 15th**

The key steps of the PhD thesis

□ If the thesis defense is not planned before December 31th :

- **A thesis committee must be organized before September 30th : required for registration in the 4th year (before October 15th)**
 - same procedure as for mi-term committee (report, work schedule, oral presentation and interviews)

Simplified procedure in only two cases:

- The manuscript and the jury/date of defense will be deposited at the doctoral School (via ADUM) before December 31th
- The first registration of the PhD student occurred in the march-july period of the year
 - A form has to be filled with advices of the supervisor, referee and Doctoral School representative

Intellectual property and valorisation

Points to keep in mind when doing your research

- Maintain confidentiality:
 - About your research in the lab
 - On third party information you may become aware of during your laboratory research
 - Do not disseminate information on social networks
 - Respect the confidentiality clauses imposed by the funder.

- Comply with publication rules
 - Obligation to mention CY according to the terms of the Dissemination Charter (and possibly partners in a collaboration)

- Like any CY employee, inform of any invention that could be the subject of a patent application.
 - Researchers' inventions belong to their employers (economic rights)
 - Inform the employer by completing a declaration of invention (PIVA service).
 - Inventors are always indicated as such on a patent (moral rights).

Doctoral missions

❖ Annual campaign of doctoral missions between may and september

Missions		Duration	Application Form
Teaching		between 60h and 64h	Teaching assignment
Non-teaching	expertise	32 days	Non- teaching assignment
	communication		
	IP exploitation		

❖ Applications for teaching assignments outside the annual campaign

➡ Duration <60h = Demande d'autorisation de cumul => VACATIONS

❖ Applications for teaching assignments in another university

➡ Demande d'autorisation de cumul = vacations paid by the other institution

Contact : missions.cumul@ml.u-cergy.fr

Disciplinary trainings

8 training courses in the catalogue

- Microscopies (9h)
- Introduction to 3D printing (16h)
- IR and Raman Spectroscopies (8h)
- Rheology of suspensions (7h)

- Basic elements in statistics for use in laboratory or panel analysis results (16h)

- GC-MS : analysis and quantification of small molecules such as metabolites, hydrocarbons and contaminants (7h)
- LC-MS : from the purification to the MS analysis of macromolecules (7h)
- Antigenic test development: from the molecular design of the probe to the ELISA test optimization (12h)

Professional integration of ED SI doctors - Promotion 2015 and 2017



Joint thesis supervision agreement

- Thesis project in collaboration with a foreign higher education institution
- Allows to obtain the 2 diplomas of the 2 institutions / 1 single defense
- The agreement must be signed within 18 months after the first registration.
- Stay of at least 1 year at CY Cergy Paris University
- Enrollment/re-enrollment in both institutions
- At the initiative of the Thesis Director in agreement with the laboratory director and the director of the Doctoral School

The Label « Doctorat Européen » or « DOCTOR EUROPEUS »

At least 3 months of mobility in a laboratory in another European country

At least 1 member of the jury belongs to an institution in a European country other than the country of the defense

At least 3 rapporteurs , including 2 from institutions in 2 European countries other than the country of the defense

Part of the defense in an official EC language other than the country of defense

Save the dates

- **The SI Doctoral School day (scientific meeting)**: November 19th, 2021 (tomorrow) Oral and poster presentations
- **Laboratory visits** organized by the PhD students : every month
(stopped during covid19 pandemic, to be organized)
- **Prix des Femmes et des Sciences 2022** : Mars 11th 2022

Prix des Femmes et des Sciences

- **PhD** category (2nd/3rd year PhD)
- **1 000€** for the research of each winner (mission, computer,...)
- **very light application, deadline January 31th**
- announced march 8th, awarded at MT180 final (march 11th)

Previous winners:

G. Cervia (ETIS, 2019)

A. Adeline (Thema, 2018)

*A. Genty-Vincent
(LCB / C2RMF)*