



Normandie Université

Ecole Doctorale Normande de Chimie

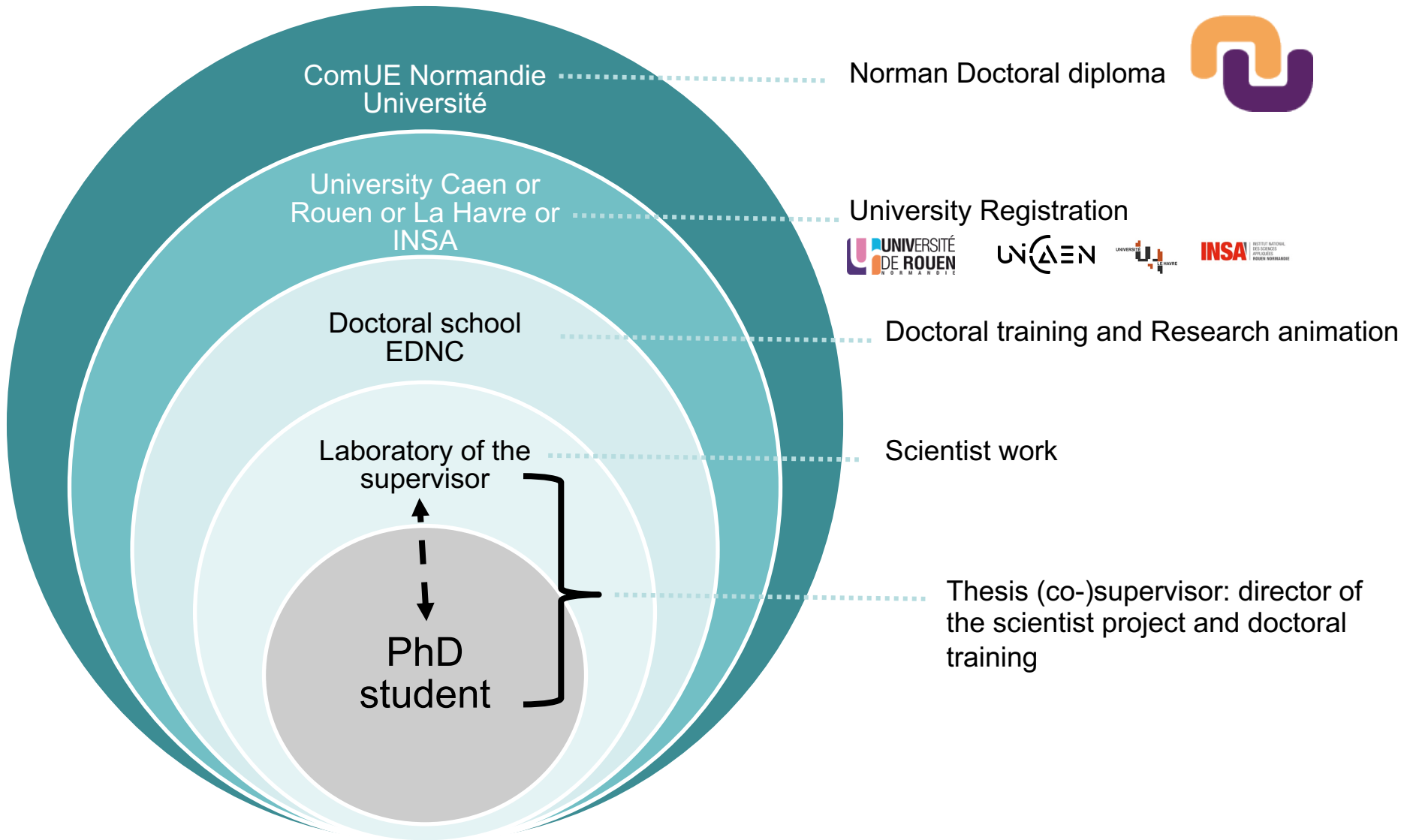


Normande de Chimie



PhD study

- ❖ www.docteurs-chimie.org
- ❖ A wage (Doctoral contract)
- ❖ An initial professional experience
- ❖ France: Legal setting (2006, 2009, **2016**)
 - Doctoral school
- ❖ Doctoral student 's mandate:
 - **Scientist project**
 - **Professionnal project**
 - Teaching (optional)
 - Supervision of trainee (optional)
 -
- ❖ Thesis length: 36 monthes
- ❖ Thesis Supervisor
 - + co-supervisor ou un co-encadrant



Main Thesis Contracts

- **Doctoral Contract**

Contract signed with an public institution: University (Caen, Rouen, Le Havre, Normandie Université), INSA, ENSICAEN, CNRS.

Origin of Thesis Funding: Normandy Region (RIN), University, INSA, Labex Synorg or EMC3, ADEME/region, DGA/region, ANR, Industrial (except CIFRE), Foundation ...

- **CIFRE**

Contract signed with an company, association or a community group.

- **Co-tutelle thesis**

Contract signed with a foreign University.

Origin of Thesis Funding: Campus France, Foreign governments fund, EUR XL-CHEM

- Thesis granted by a foreign government

Doctoral Contract

The legal Setting (25 may 2016)

- related to the PhD students having contract with Public institution
- Norman higher institutions: University of Caen – Rouen – Le Havre / INSA:
Mandatory registration
- 3 years contract with a 2 months testing period
- Possibility of a 1 year break period
- Standard gross salary: **1 768.55 euros €**



Some obligations should be imposed by the funder:

- annual reports
- meetings with the partners
- **RIN funding:**

* Welcome meeting with the Region's president: **vendredi 4 décembre 2020 à 14h30**

* dissemination of scientific culture: fête de la science, FENO...

CIFRE

The doctorant has a work contract with a company or association.

- 3-year short-term contract
- supervised by two managers: the thesis supervisor at the laboratory and the scientific advisor in the company
- a gross annual salary of at least 23,484 € (2018)



Obligations should be imposed by the partner company:

- annual reports
- meetings with the partners
- trainings....

Co-tutelle thesis

Convention signed between a Normand institution and a foreign institution, that described the research terms.

- supervised by two managers: the thesis supervisor at the normand laboratory and the thesis supervisor at the foreign laboratory
- two doctoral diplomas from each institution
- Financial bonus: **>1 000 euros** € /month for the stay in Normandy



Obligations should be imposed by the convention:

- annual reports
- meetings with the partners....

Supplementary missions

- **It depends of the thesis contract**
- **It require the autorisation of the supervisors**
- CIFRE: requires the company autorisation
- Whatever the type of mission, the annual working time that can be devoted to it is at most **268h, around 32 days or 64h eq. tutorials.**

➤ **Teaching**

The teaching officers provide an annual service of 64 hours of tutorials or practical work and are integrated into a teaching team within a UFR. These lessons take place in the undergraduate cycle, and exceptionally in the Master's cycle, and according to the needs of the teaching departments.

➤ **Business advice / expertise**

A company, a local authority, an administration or an association can call on a PhD student to carry out a short consultancy or expertise assignment, for a maximum of 32 days per year.

The Doctoral School

- ❖ The doctoral schools organize the **curriculum** of future Doctors and prepare them to the **professional insertion**.
- ❖ They bring a **pluridisciplinary culture** in the frame of a coherent scientist project.
- ❖ They contribute to the coherence and **international visibility** of the doctoral training of the institutions and the **research structuring** of the institutions

Norman Chemical Doctoral School: EDNC

EDNC joints Molecular and Macromolecular Chemistry, Analysis, Medicinal chemistry, Formulation, Catalysis research in Normandy ...

- EDNC belongs to the Research Federation **INC3M**: Institut Normand de Chimie Moléculaire, Macromoléculaire et Médicinale



- Interaction with 2 Norman Networks: **Pôles de la ComUE Normandie-Université** :
 - **Pôle CBSB** : New technologies in Chemistry and Biology for Health and Well-Being
 - **Pôle EP2M** : Energies, Propulsion, Matter, Materials



EDNC

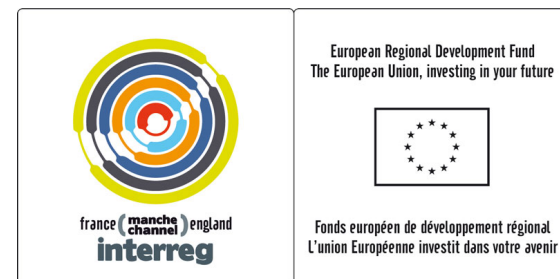
national et international visibility

- Programme Interreg IVa « IS:CE Chem » (13M euros)
30 thèses financées (15 FR et 15 UK) 2008-2013



- Programme Interreg IVa « SETARMS » (5M euros)
Laboratoires ABTE + ESITC

- Programme AI Chem Channel (7M euros)
Laboratoires de la fédération – 2012-2015
Interface académie- industrie



- Programme LabFact
COBRA et LCMT – 2017-2021 (4M euros)
Synthetic methodology for chemical industry

- Programme GenComm
LCS – 2017-2021
Renewable H2 as energy



EDNC

national et international visibility



- International CNRS Laboratory (LIA) LCS-University of Jilin (CHINE), Dalian Institute of Chemical Physics
- European Programs FP7 et H2020



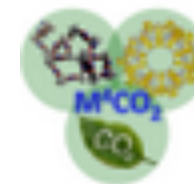
DALIAN INSTITUTE OF CHEMICAL PHYSICS,
CHINESE ACADEMY OF SCIENCES



2007-2010



2017-2020



2014-2017



European Research Council
Established by the European Commission

T. Besset (COBRA)
FarCatCH
2017-2021



2017-2020

H2020-MSCA-ITN
2018-2020

- Involvement in 3 LABEX (ANR):

- EMC3 (20M euros, 6 labos dont LCMTet LCS)
- SYNORG (8M euros, 4 labos dont COBRA et LCMT)
- IRON (4,5M euros, 11 labos dont LDM-TEP)

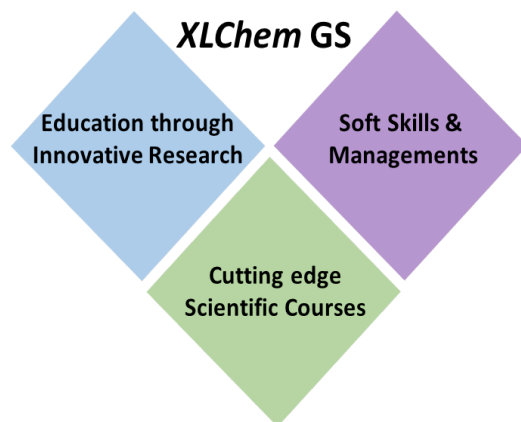


EDNC

national et international visibility

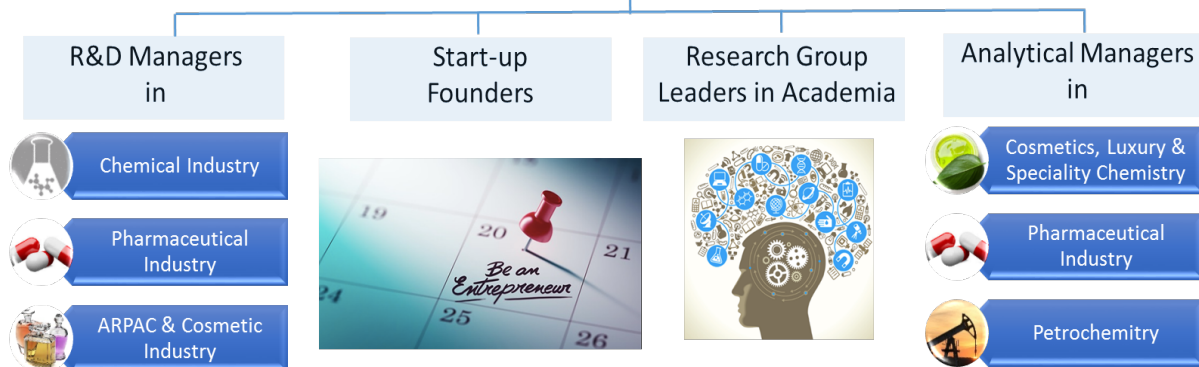


XL-Chem European Graduate School training and research centre for molecular chemistry.



*A Springboard
For the Futur Leaders as*

XL-Chem thesis with international academic partner or industrial partner:
-> 18 months in foreign University



EDNC

Partenariats industriels

- Participation à 2 instituts Carnot



- de nombreuses collaborations industrielles, 1 chaire industrielle, et 4 Laboratoires communs :

- Chaire industrielle ANR LCS / Total



- COBRA / Jansen



- COBRA / Oril



- COBRA / Total



- CERMN / Servier



- COBRA / Holodiag

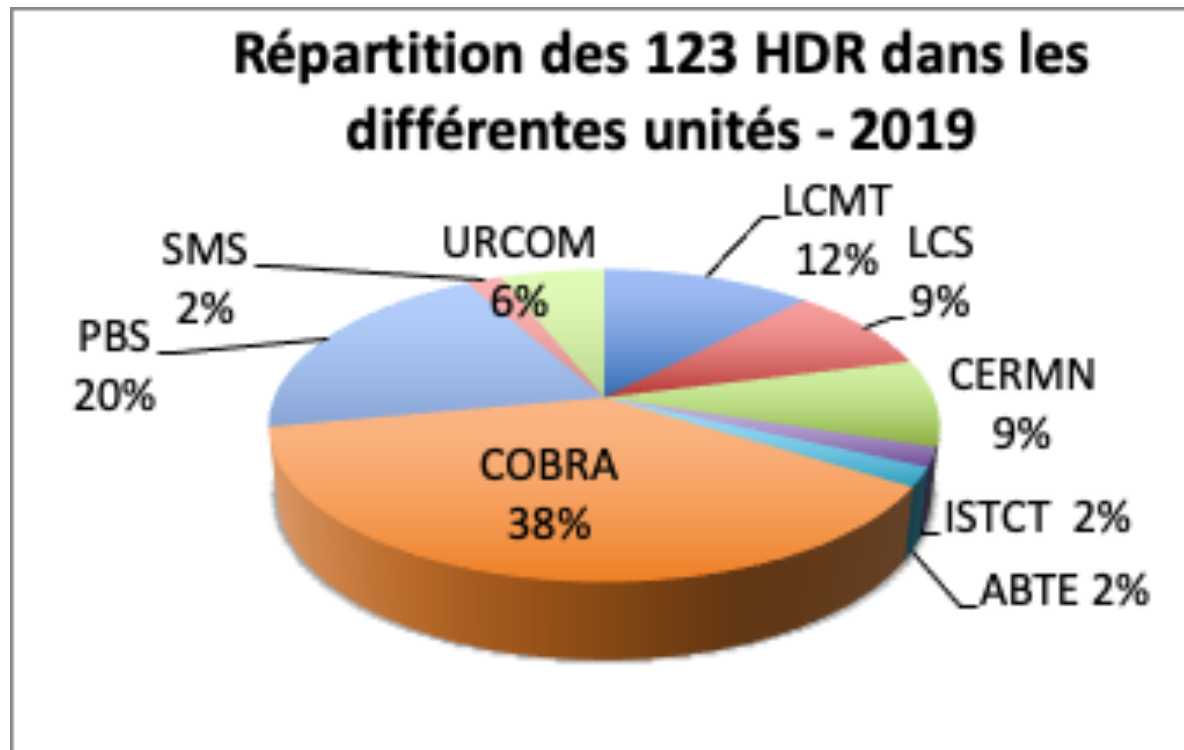


Laboratories of EDNC

Label et N°	Intitulé complet de l'unité de recherche	Directeur
UMR CNRS 6014 COBRA	Chimie Organique Bioorganique Réactivité Analyse	Pierre-Yves RENARD
UMR CNRS 6270 PBS	Polymères Biopolymères Surfaces	Thierry JOUENNE
EA 3233 SMS	Sciences et Méthodes Séparatives (équipe chromatographie)	Gérard COQUEREL (Pascal CARDINAEL)
EA 3221 URCOM	Unité de recherche en Chimie organique et Macromoléculaire	Adam DAICH
UMR CNRS 6507 LCMT	Laboratoire Chimie Moléculaire et thioorganique	Thierry LEQUEUX
UMR CEA-CNRS 6301 ISTCT	Imagerie et stratégies thérapeutiques des pathologies cérébrales et tumorales (équipe LDM-TEP)	Myriam BERNAUDIN (Cécile PERRIO)
EA 4258 CERMN	Centre d'études et de recherche sur le médicament de Normandie	Patrick DALLEMAGNE
UMR CNRS 6506 LCS	Laboratoire Catalyse et Spectrochimie	Christian FERNANDEZ
EA 4651 ABTE	Aliments, Bioprocédés, Toxicologie, Environnements (une partie de l'équipe EcoTEA)*	François SICHEL (Jérôme LEDAUPHIN)

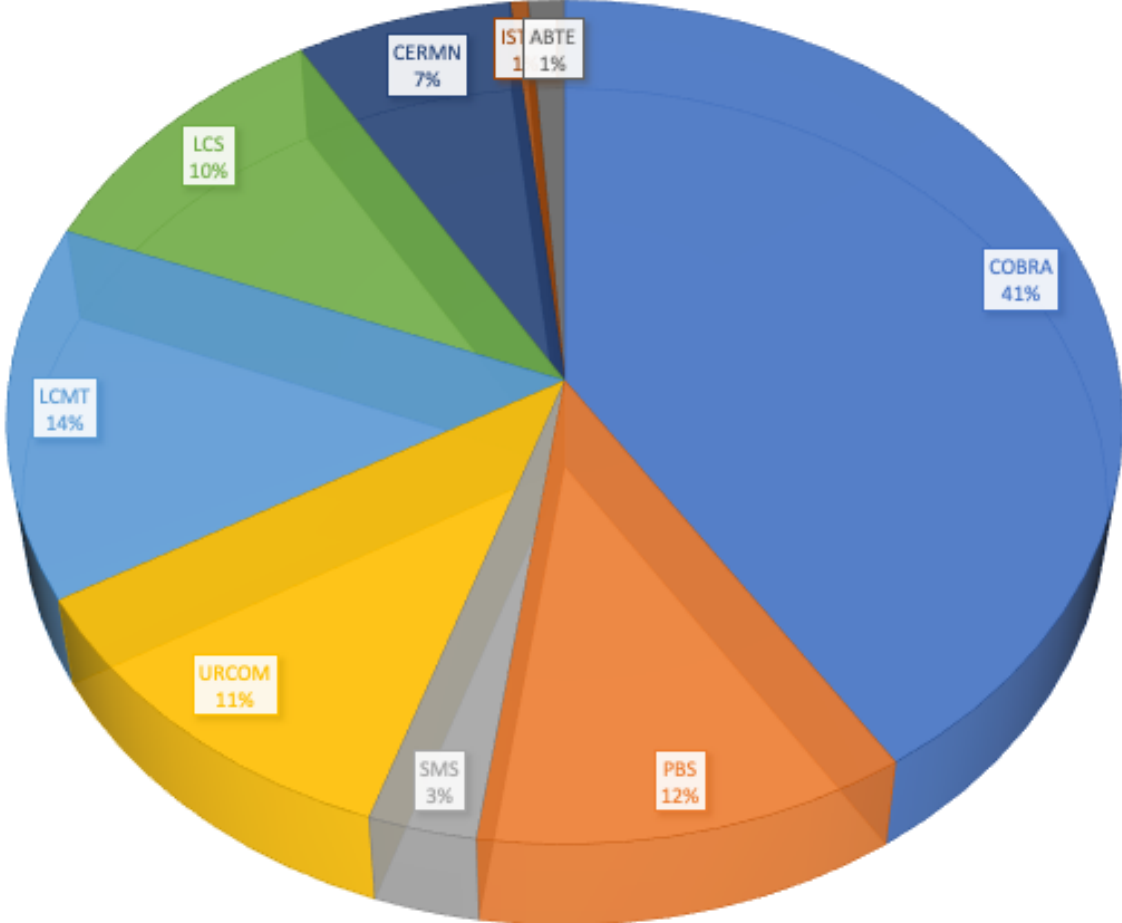
EDNC: 2017-2021

- ❖ Directeur : Isabelle DEZ / **Université de Caen-Normandie**
- ❖ Directeur adjoint : Thomas LECOURT/ **INSA Rouen-Normandie**
- ❖ Directeur adjoint : Pierre-Yves RENARD / **Université de Rouen-Normandie**
- ❖ Directeur adjoint: Vincent DALLA / **Université Le Havre - Normandie**
- ❖ 184 enseignants-chercheurs dont 124 HDR



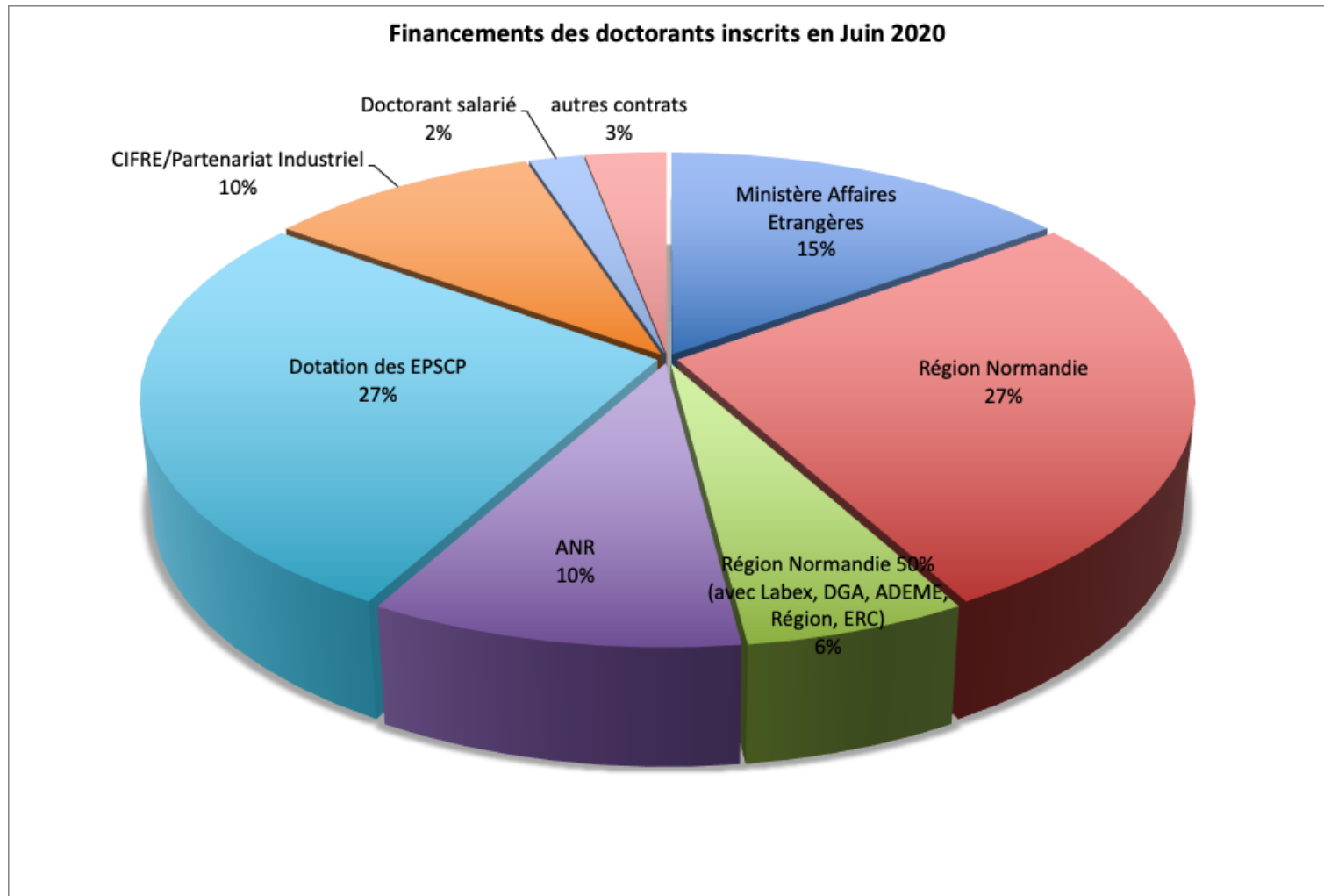
Theses of the EDNC

180 DOCTORANTS – Novembre 2020



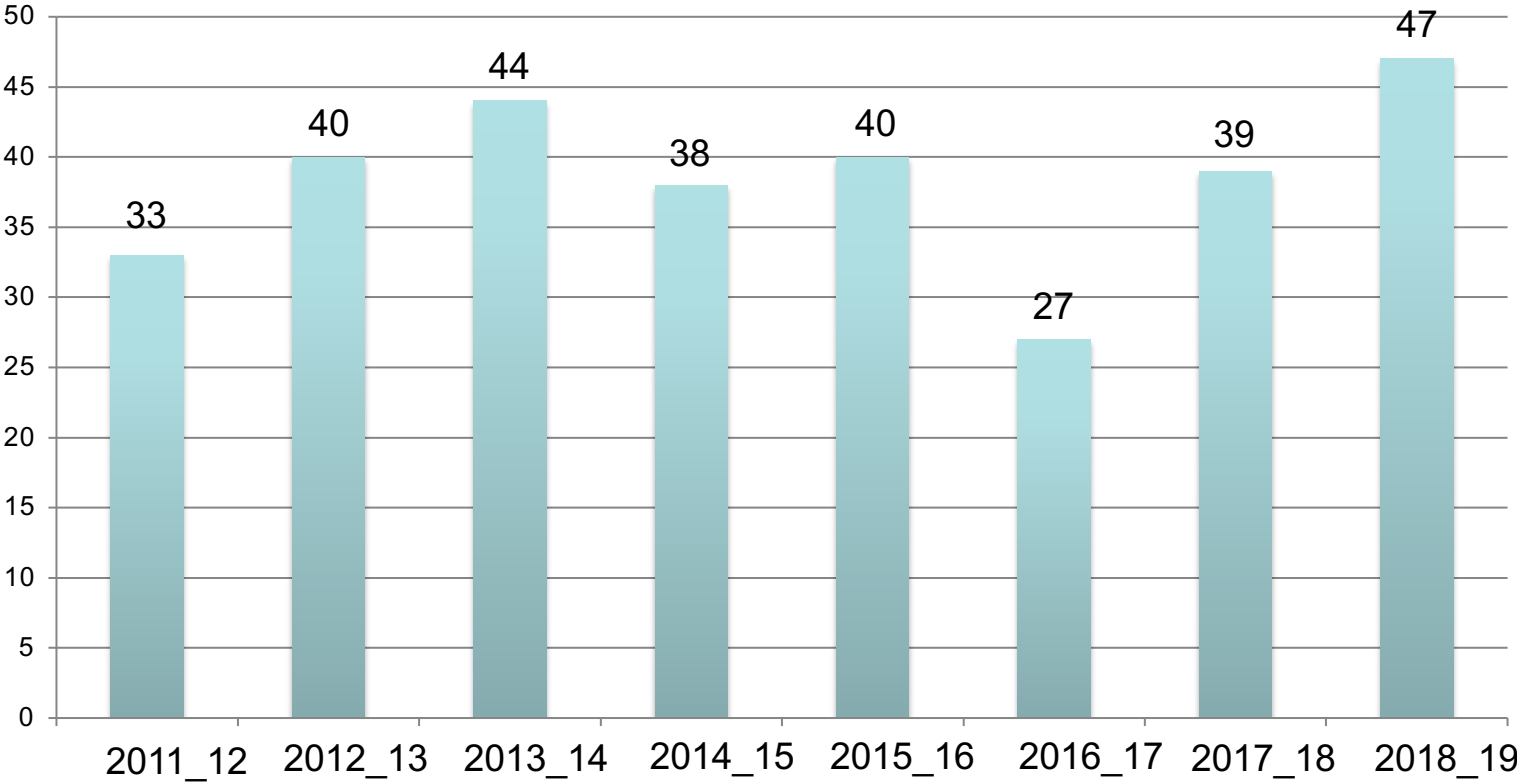
EDNC: 2017-2021

❖ Financial supports for thesis – June 2020



PhD Defences/year

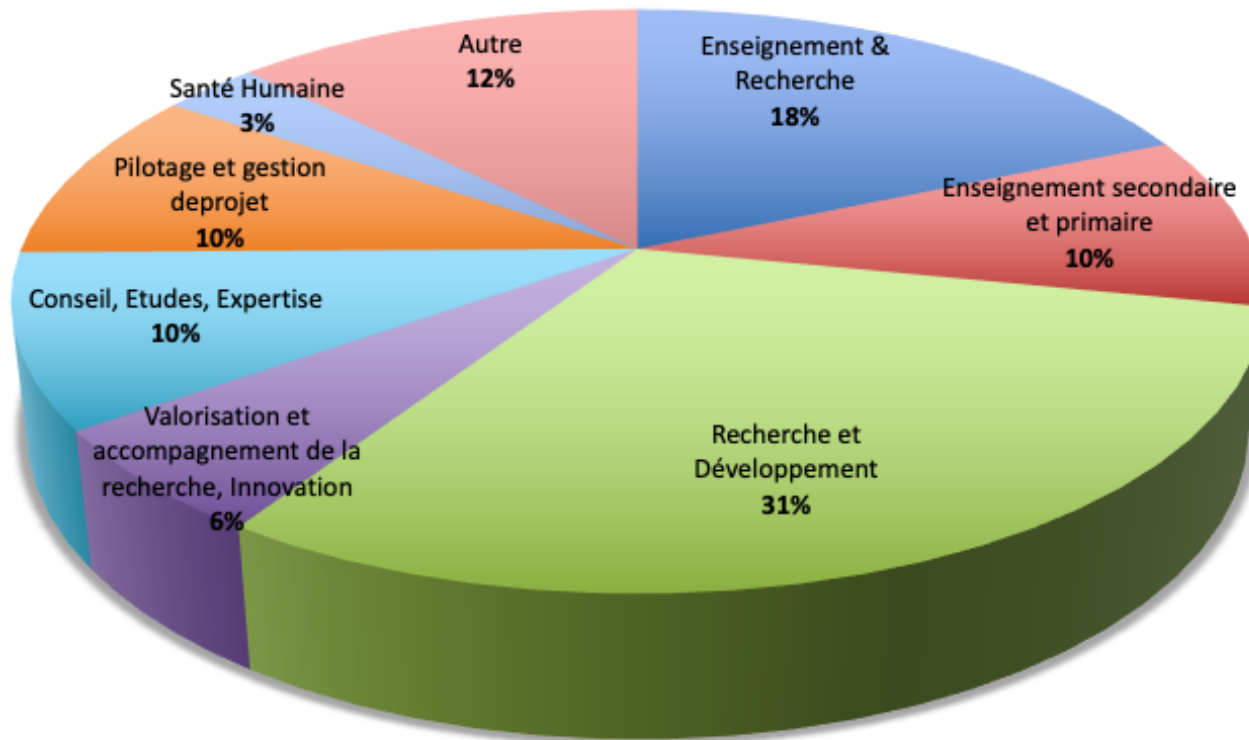
Number of Defences



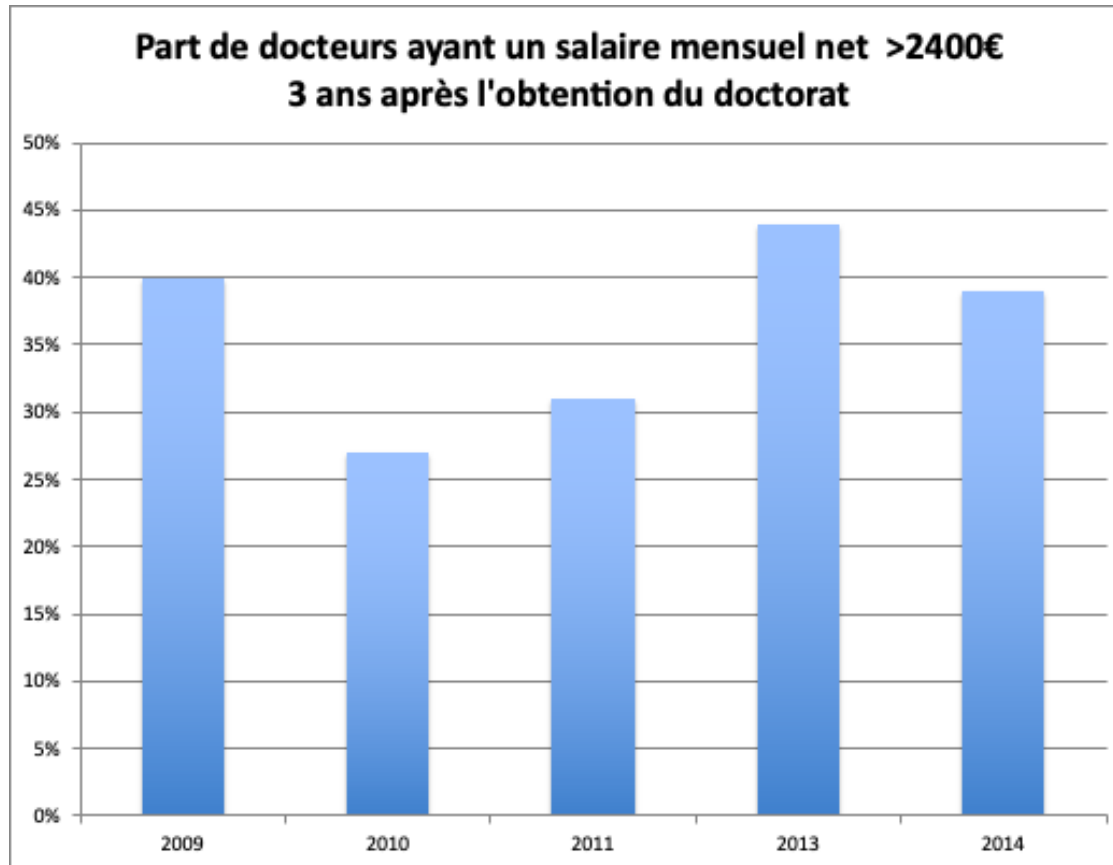
PhD lenght (2012-2019) : 39,3 monthes

After Thesis

**Activité - 3 ans après doctorat
- promotion 2014**



After Thesis



Maison Des Doctorants

❖ Maison des doctorants

- Rouen – Mont Saint-Aignan
- Caen – Campus 2
- Règlement Intérieur (en cours de soumission à NU)

❖ Mailing (ednc@normandie-univ.fr)

Rouen	Lynda LETETU Lynda.letetu@univ-rouen.fr	02.35.52.29.19	Université de Rouen Normandie UFR Sciences et techniques Bât. MONOD - Bureau n°22 (1 ^{er} étage) Bd Maurice de BROGLIE 76821 Mont Saint Aignan Cedex
Caen	Sylviane FOURNET sylviane.fournet@unicaen.fr	02.31.56.59.64 02.31.56.74.08	Université de Caen Normandie Bât sciences 3 – Campus 2 Bureau n° 169, 1 ^{er} étage 6 BD Maréchal Juin 14032 CAEN CEDEX
Le Havre	Christine LE BODO	02 32 74 40 42	Université du Havre DiRVED 25 rue Philippe Lebon – B.P. 1123 - 76063 LE HAVRE cedex

Règlement Intérieur (see on EDNC Website)

Representative PhD students

❖ 5 Representative PhD students

- > they belong to the EDNC Concil
- > they built the specific trainings (visit of Companies, survey of doctoral students...)
- > they organized the Daylong symposium of the doctoral school

CAEN

- Thibault THIERRY , UCN / LCMT (thibault.thierry@ensicaen.fr).
- Line SEGUY, UCN / CERMN (line.seguy@unicaen.fr).

ROUEN

- Mathieu Madau, URN / PBS (mathieu.madau@univ-rouen.fr)
- Louise Ruyet, URN / COBRA (louise.ruyet@insa-rouen.fr)

LE HAVRE

- Marie Jaricot, ULNH / URCOM (marie.jaricot@univ-lehavre.fr)

Doctoral student monitoring

Two main tools to ensure the good running of the thesis

- ❖ The **referent-teacher** (Dr, Pr), external to the doctorant host team, chosen by the doctorant.
 - Annual meeting to ensure thesis work good conditions
 - SHORT report signed by the doctorant and referent-teacher

In the event of an issue with PhD thesis conditions, the referent teacher and the PhD student will inform the EDNC management, who, if necessary, will gather a monitoring committee composed of the PhD supervisor(s), the laboratory director or deputy director and the referent teacher.

⇒ This committee role will be to propose solutions to solve the issues.

Doctoral student monitoring

Two main tools to ensure the good running of the thesis

- ❖ The **mid-term defenses** (during the second year of PhD)
 - to provide feedback to the progress of the PhD work;
 - to defend the research project in front of a jury.

- Report (10 pages)

- Oral presentation (15 minutes) and 25-30 minutes of questions related to the work, general scientific culture and professional project of the PhD student.

Except for industrial thesis, the mid-term defenses is public, but the questions / discussions with jury members will be behind closed doors : only the teacher-referer is present with the jury members.

Animation of EDNC

- ❖ The Welcome meeting
- ❖ The annual Daylong symposium of the doctoral school organized by the PhD students for te PhD students
- ❖ Specific doctoral training program of EDNC
 - *Laboratory Seminars*
 - *Visits of compagnies*
 - *Specific training*
 - *Bibliography research, patents, Security, Scientist Ethic*
 - *Scientist formations (see with representative doctorants)*

PhD Student Journey

❖ Individual Interview with ED Director (ou director deputy)

Date	Milestone
<i>November 2020</i>	EDNC Welcome Meeting
<i>November 2020</i>	Daylong symposium of the doctoral school 2020 - Visio
<i>January-April 2021</i>	Choice of Referent teacher
<i>May-June 2021</i>	Meeting with the referent teacher + 1 st year report
<i>July 2021</i>	Daylong symposium of the doctoral school 2021
June 2022	Middle term Ph-D defense (report + defense)
May-June 2022	Meeting with the referent teacher + 2nd year report
	⇒ authorization to register for the 3 rd year of the thesis
<i>July 2022</i>	Daylong symposium of the doctoral school 2022
<i>May-June 2023</i>	Meeting with the referent teacher + 3 rd year report
<i>July 2023</i>	Daylong symposium of the doctoral school 2023
<i>September-December 2023</i>	Ph-D defense

PhD Student Journey

- ❖ To allow the PhD student to communicate in a congress
 - => Financial support of EDNC for congress:
 - 200 euros for national congress
 - 300 euros for international congress

- ❖ Financial support for a specific training related to the doctoral project or professional project
 - => specific and justified request of the PhD student

Doctoral training program

⇒ In the frame of Normandie University



<http://www.normandie-univ.fr/le-doctorat-36405.kjsp?RH=1351093832209&RF=1455108761479>

❖ A mandatory training: **Scientist ethic**

Doctoral training program

Parcours recherche et enseignement supérieur

- Structure et fonctionnement de l'Enseignement Supérieur et la Recherche
- Monter et mener un projet de recherche / Financement et management de projets de recherche
- Modules pédagogiques de l'ESPE

Parcours entreprise

- Sécurité et intelligence économique
- Comprendre le fonctionnement d'une entreprise
- Manager l'innovation
- Création d'entreprises innovantes

Parcours carrières dans les agences et les administrations territoriales, nationales et internationales

- Les opportunités d'emplois pour les docteurs dans les collectivités territoriales
- L'emploi des docteurs dans les agences et organisations nationales
- Valoriser son doctorat pour trouver un emploi dans les institutions européennes et les organisations internationales

Doctoral training program

- **Modules « communication et savoir-être »**
- **Modules « Méthodologies et outils de la thèse »**
- **Modules « Protéger, valoriser et diffuser les résultats et produits de la recherche »**
- **Modules d'accompagnement du parcours professionnel**
- **Modules de diffusion de la culture scientifique, technique et industrielle**

Websites

- ❖ EDNC website: <http://ed508-nc.normandie-univ.fr/>
Congress registration, PhD advertisings, congress advertisings...

- ❖ SYGAL (SYstème de Gestion et d'Accompagnement doctoraL):
<https://sygal.normandie-univ.fr/>
Norman and national doctoral investigations, Defence process...

- ❖ Specific Websites
Registration in thesis, the doctoral training program...
 - UNICAEN: <http://recherche.unicaen.fr/etudes-doctorales/formations-doctorales/>
 - UNIROUEN: <http://recherche.univ-rouen.fr/formation-doctorale-335983.kjsp>

<http://ed508-nc.normandie-univ.fr/>



Normande de Chimie

PRÉSENTATION

UNITÉS DE RECHERCHE

ITINÉRAIRE DU DOCTORANT

OFFRE DE THÈSE

FORMATION

Informations générales
Formations spécifiques
Le Collège des Écoles Doctorales
La mission enseignement

SOUTENANCES

INSERTION PROFESSIONNELLE

MANIFESTATIONS

TOUTES LES ACTUALITÉS

LIENS UTILES



AGENDA 2016

OCTOBRE
17

MOOC SSI
Ouverture inscriptions

NOVEMBRE
3

MT180 - édition 2017
ouverture inscriptions

14

CA de Normandie Université
à Rouen

18

Journée scientifique STENOR
[PDF - 306 Ko]
à Caen

28

CAC de Normandie Université
à Caen

30

Colloque CPU
Université de Caen Normandie

DÉCEMBRE
2

RUNN 2016



RENCONTRES UNIVERSITAIRES
NUMÉRIQUES
NORMANDES

VENDREDI 2 DÉCEMBRE 2016

Rencontres
Universitaires
Numériques
Normandes - RUNN



Criteria for Defence

Criteria for Defence

- 100H de crédits de formation
- Ethic scientist training
- 1 oral communication
- 1 publication is highly required

=> Adaptation according the PhD student situation (multi-sites, industrial, joint supervision thesis, co-tutelle....)

CRÉDITS DE FORMATION:

- duration of transversal and specific training
- hours are allocated for specific actions of the PhD student: popularization of science, teaching, communication (my thesis in 180 '), participation in advice, publication ...



MA THÈSE EN
180 SECONDES

Dates de l'édition 2021

Ouverture des inscriptions : lundi 9 novembre 2020

Clôture des inscriptions : lundi 4 janvier 2021

Formation théorique : vendredi 29 janvier 2021

Formation pratique : jeudi 11 février 2021

Sélection pour la finale : jeudi 18 février 2021

Date de la finale normande : 18 mars 2021

Demi-finale nationale : avril 2021

Finale nationale : juin 2021

Finale internationale : automne 2021

❖ Présenter votre sujet de recherche, en français et en termes simples, à un auditoire profane et diversifié

❖ Site web : <http://www.normandie-univ.fr/ma-these-en-180-secondes-edition-2021-72413.kjsp?RH=1602157880544&RF=1602157880544>



Doctoral graduation ceremony



Sites Internet

❖ De l'EDNC 508 – (UniCaen)

<http://ed508-nc.normandie-univ.fr>



Normande de Chimie

❖ Réseau des ED en chimie (REDO χ):

<http://www.docteurs-chimie.org/>



DOCTEURS
CHIMIE
.ORG

ABG - L'intelli'agence.



<http://www.intelliagence.fr/>