



*Normandie Université*

# Ecole Doctorale Normande de Chimie



Normande de Chimie

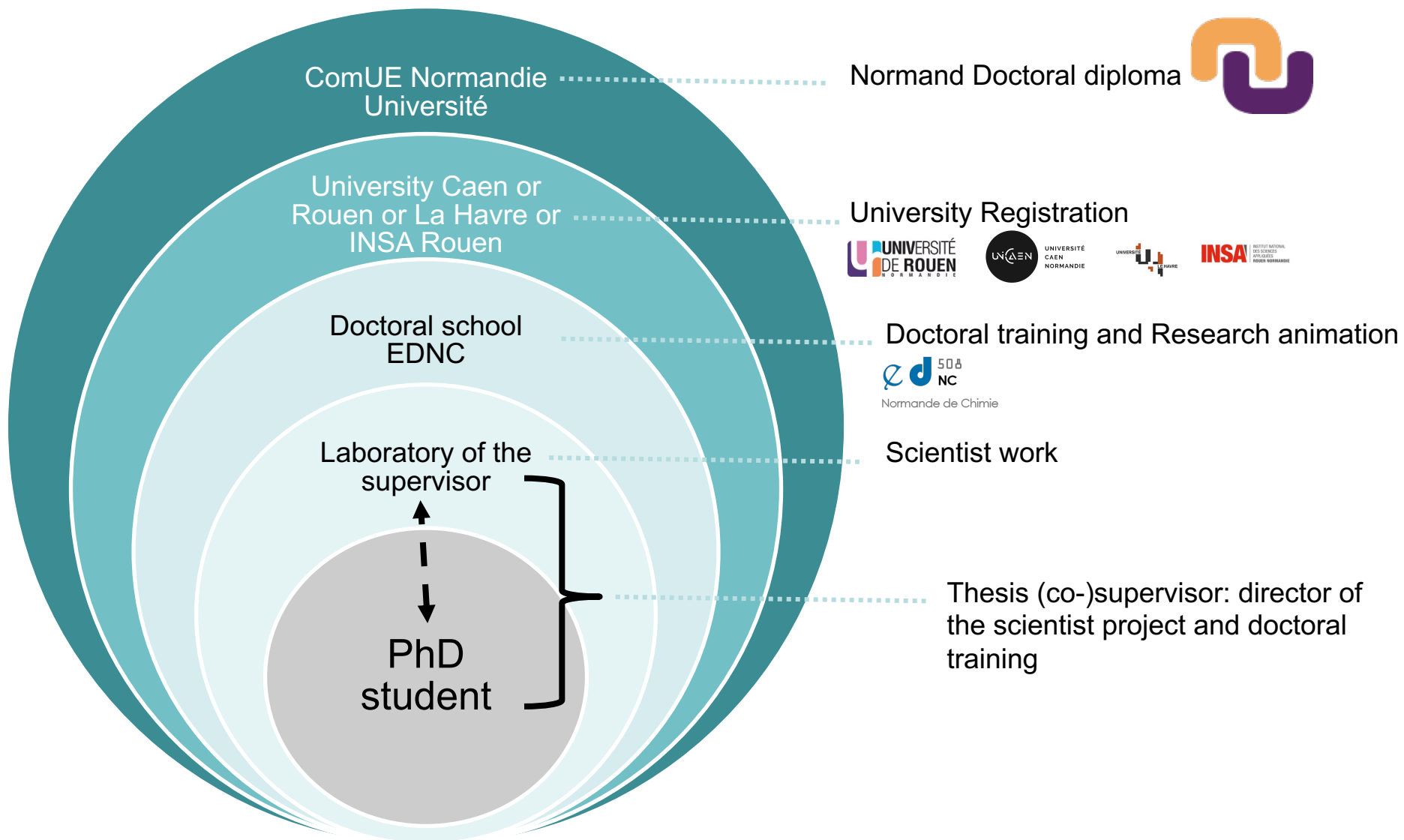


- ❖ [www.docteurs-chimie.org](http://www.docteurs-chimie.org)
- ❖ A wage (Doctoral contract)
- ❖ An initial professional experience
- ❖ France: Legal setting (2006, 2009, **2016**)
  - Doctoral school
- ❖ Doctoral student 's mandate:
  - **Scientist project**
  - **Professionnal project**
  - Teaching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

Scientist project  
and financial support

Selection of the  
candidate by the  
project leader

Interview and  
validation by the  
doctoral school



# Main Thesis Contracts

## - **Doctoral Contract**

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

*Origin of Thesis Fundings: Normandy Region (RIN), Institutions, INSA Rouen, Labex Synorg/ Normandy Region, BRGM/Normandy Region, AgroPariTech/Normandy Region, LHSM/Normandy Region, ANR, Foundation ...*

## - **CIFRE**

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

## - **Co-tutelle thesis**

**Contract signed between a normand University and** a foreign University.

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

- Thesis granted by a foreign government: China Scholarship Concil (CSC),.....

# Doctoral Contract

## The legal Setting (25 may 2016)

- related to the PhD students having contract with Public institution
- Registration in Normand institutions: Universities of Caen – Rouen – Le Havre; INSA Rouen
- 3 years contract with a 2 monthes testing period
- Possibility of a 1 year break period
- Standart gross salary: **1 866 € (2020: 1758 €)**



Some obligations should be imposed by the funder:

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

\* Welcome meeting with the Region's president: **Thursday  
D cember 2, 2021 afternoon in Caen**

\* dissemination of scientific culture: f te de la science, FENO...

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 stipend: **>1 200 euros €** /month for the stay in Normandy



Obligations should be imposed by the convention:

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

# Foreign government

- Scholarship from the China scholarship Concil
  - Financial stipend: around **1 350 euros** € /month included health insurance
  - period: from 42 to 48 monthes



# Supplementary missions

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- **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. => **Obligation to undergo training on teaching**

## ➤ **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

## ❖ Management team

- Isabelle DEZ – Directrice – CAEN
- Thomas LECOURT – Directeur Adj. – ROUEN
- Vincent DALLA – Directeur Adj. – LE HAVRE

## ❖ Executive team

- Management team
- PhD student representatives
  - ✓ 2 elected representatives of CAEN PhD students
  - ✓ 2 elected representatives of ROUEN PhD students
  - ✓ 1 elected representatives of LE HAVRE PhD students

## ❖ Doctoral School Council:

- Management team
- Members of the laboratories,
- PhD students,
- Industrials

# Maison Des Doctorants

- ❖ Maison des doctorants
  - Rouen – Mont Saint-Aignan
  - Caen – Campus 2
  
- ❖ Mailing ([ednc@normandie-univ.fr](mailto:ednc@normandie-univ.fr))

Rouen	Lynda LETETU <a href="mailto:Lynda.letetu@univ-rouen.fr">Lynda.letetu@univ-rouen.fr</a>	02.35.52.29.19	Université de Rouen Normandie UFR Sciences et techniques Bât. MONOD - Bureau n°22 (1 <sup>er</sup> étage) Bd Maurice de BROGLIE 76821 Mont Saint Aignan Cedex
Caen	Sylviane FOURNET <a href="mailto:sylviane.fournet@unicaen.fr">sylviane.fournet@unicaen.fr</a>	02.31.56.72.12	Université de Caen Normandie Bât sciences 3 – Campus 2 Bureau n° 169, 1 <sup>er</sup> 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

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



**PRÉSENTATION** ▼

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**UNITÉS DE RECHERCHE** ▼

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**ITINÉRAIRE DU DOCTORANT** ▼

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**OFFRE DE THÈSE** ▼

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**FORMATION** ▼

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**SOUTENANCES** ▼

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**INSERTION PROFESSIONNELLE** ▼

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**MANIFESTATIONS** ▼

# Laboratories of EDNC

Label et N°	Intitulé complet de l'unité de recherche	Directeur
UMR CNRS 6014 COBRA	Chimie Organique Biorganique 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
EA 4651 ABTE	Aliments, Bioprocédés, Toxicologie, Environnements (une partie de l'équipe EcoTEA)*	François SICHEL (Jérôme LEDAUPHIN)

# 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

2021

- Jean-Nicolas NOEL, UCN / LCMT ([jean-nicolas.noel@ensicaen.fr](mailto:jean-nicolas.noel@ensicaen.fr)).
- Chloé REMONDIN, UCN / CERMN ([chloe.remondin@unicaen.fr](mailto:chloe.remondin@unicaen.fr)).

### ROUEN

- Guillaume LE CRAS, URN / PBS ([guillaume.le-cras1@univ-rouen.fr](mailto:guillaume.le-cras1@univ-rouen.fr))
- Enzo NOBILE, URN / COBRA ([enzo.nobile@insa-rouen.fr](mailto:enzo.nobile@insa-rouen.fr))

### LE HAVRE

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

# Normand 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





# EDNC

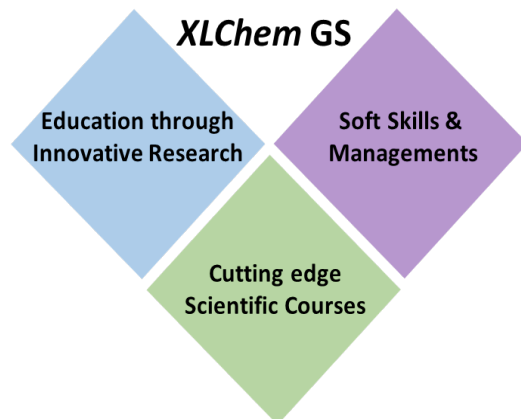


Normande de Chimie

## International visibility

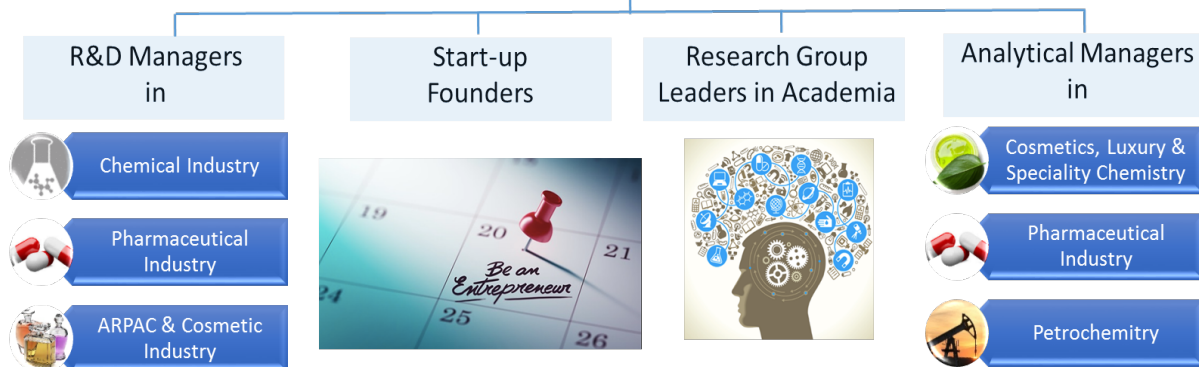


**XL-Chem European Graduate School training and research centre for molecular chemistry.**



**A Springboard  
For the Futur Leaders as**

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



# EDNC



Normande de Chimie

## International visibility



2020: 6 PhD students

2021: 6 PhD students

<b>D Cahard</b>	COBRA	Pr. I Marek (Technion Institute, Israel)	MYRONOVA Veronika	M2R Nice
<b>J Legros</b>	COBRA	Pr. JC Montbaliu (Université de Liège, Belgium)	BODDAERT Maxime	M2R Lille
<b>H Ouliady</b>	COBRA	Pr. P Williard (Brown University, USA )		
<b>C Picard</b>	URCOM	Pr. P.M. Berardo Goncalves Maia Campos (Sao Paolo Uni. Brazil)	FERREIRA Vitoria Tonini Porto	M2R Brésil
<b>S Bouzbouz</b>	COBRA	Pr. A. Gagnon (UQUAM, Montreal, Canada)	LARRIBEAU Thibaut	M2R Sorbonne Univ.
<b>M. Grisel</b>	URCOM	Pr. A Paraskevopoulou (Aristotle University, Thessalonique Greece) ... Université Le Havre Normandie	DELAPORTE Adeline	Master Chimie et Ingénierie de la Formulation (CIF) Université Lille

# EDNC

## Partenariats industriels

- Participation au Carnot I2C



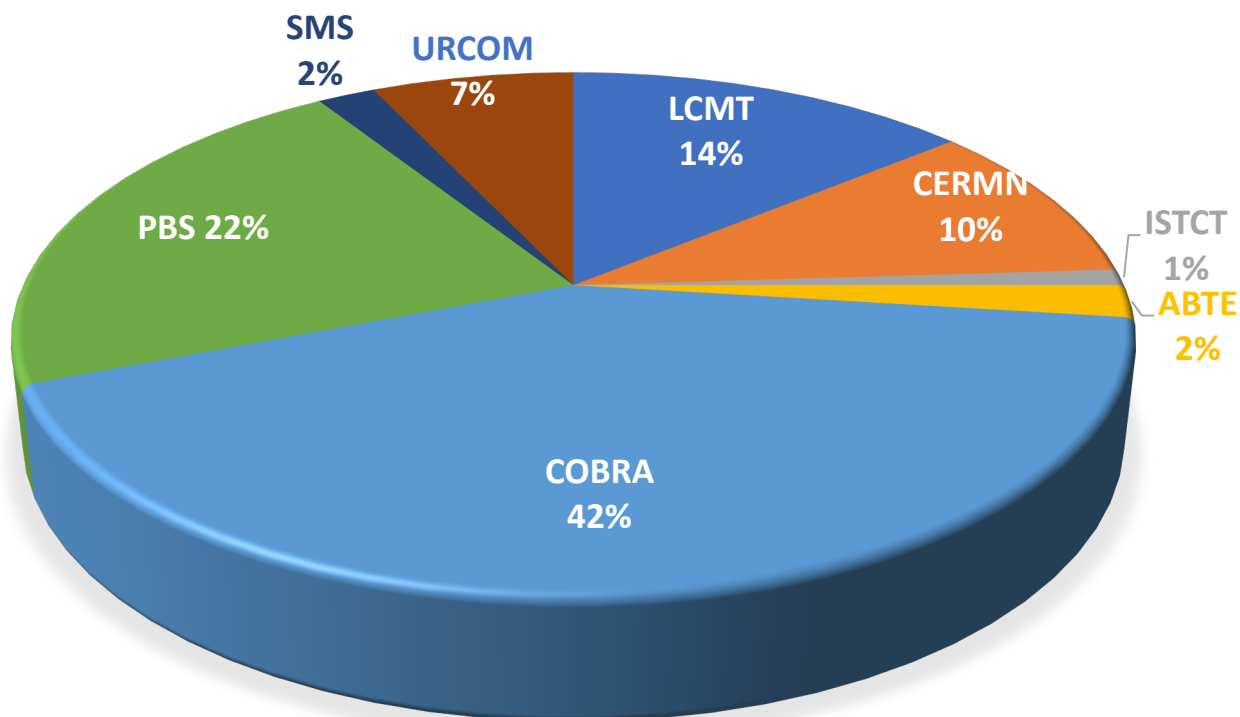
- Collaborations industrielles:



# EDNC 2021

❖ 162 researchers with 111 research supervisors (HDR – Habilitation à diriger les recherches)

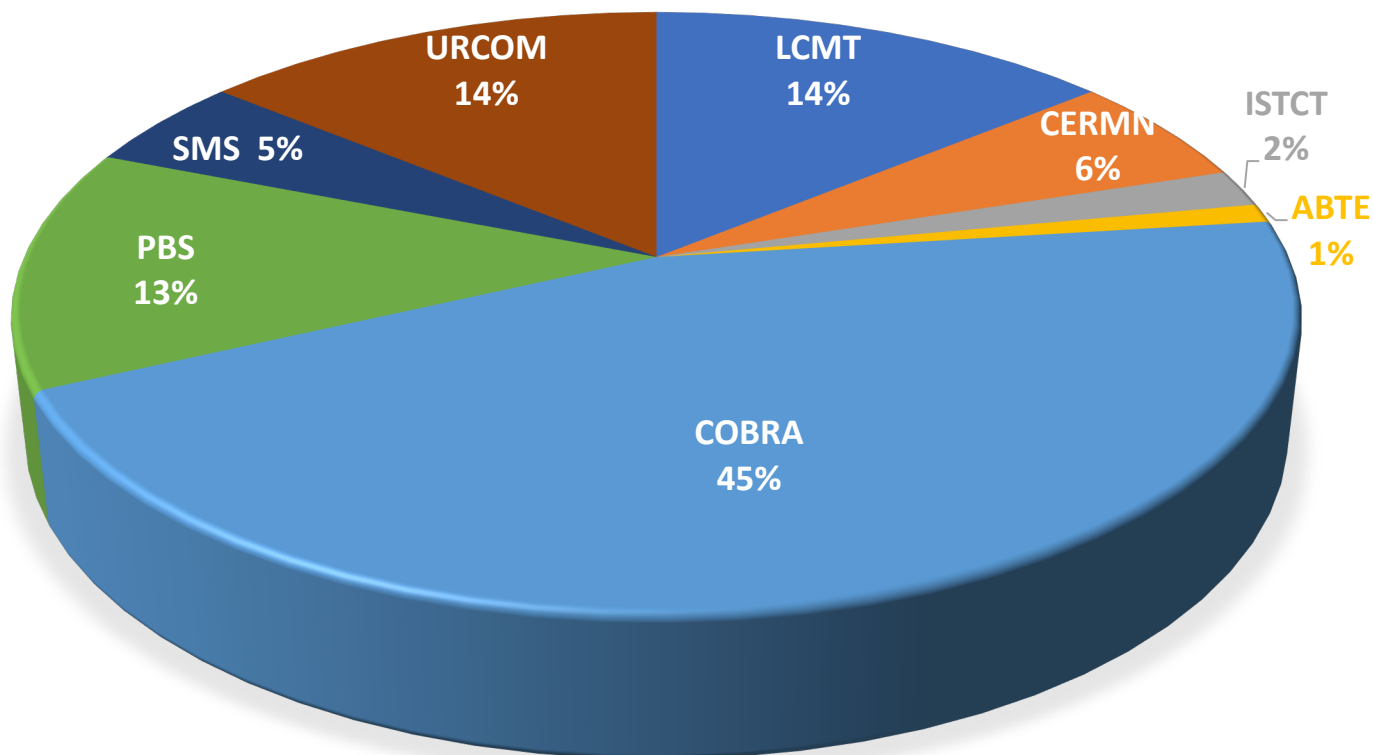
RESEARCH SUPERVISORS (HDR) - 2021



# Theses of the EDNC

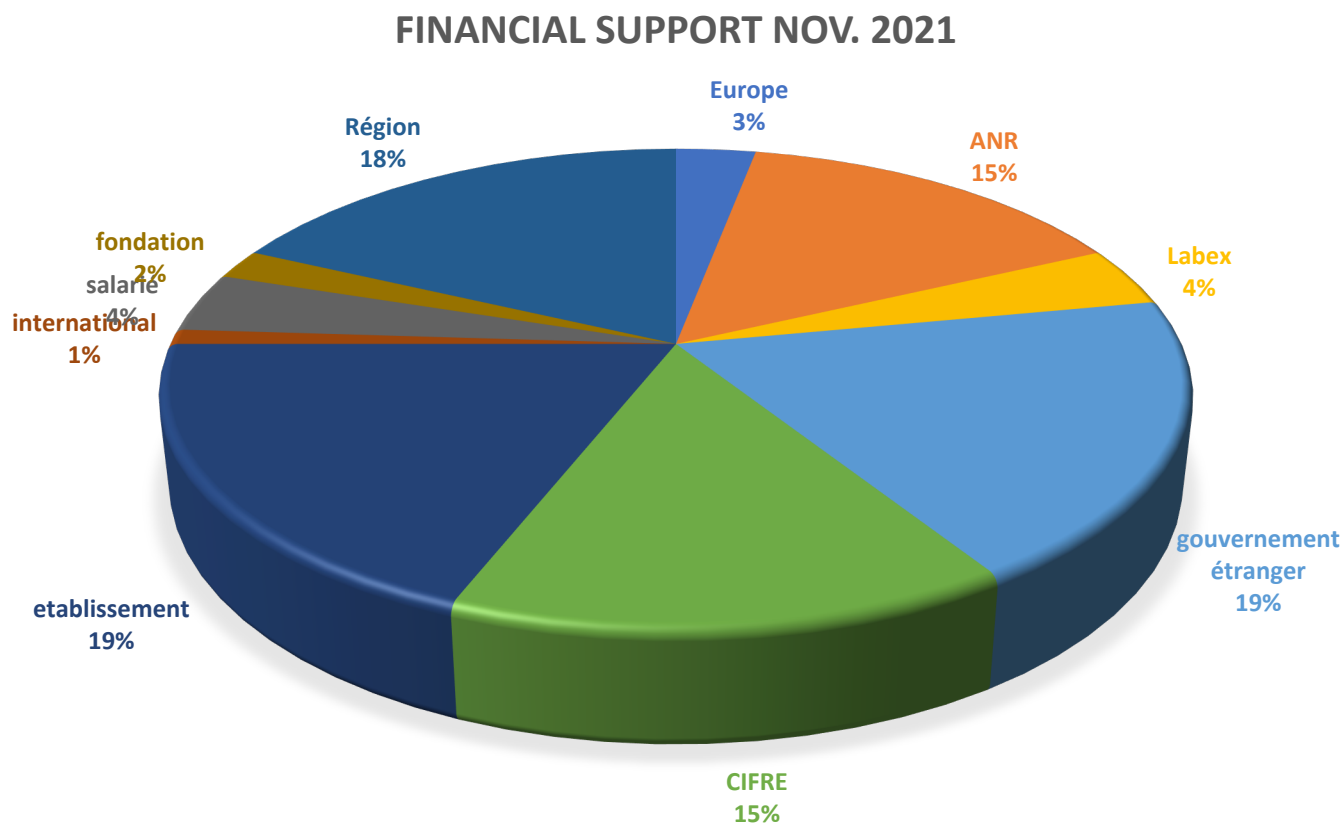
## 161 DOCTORANTS – Novembre 2021

THÈSES EN COURS NOV. 2021



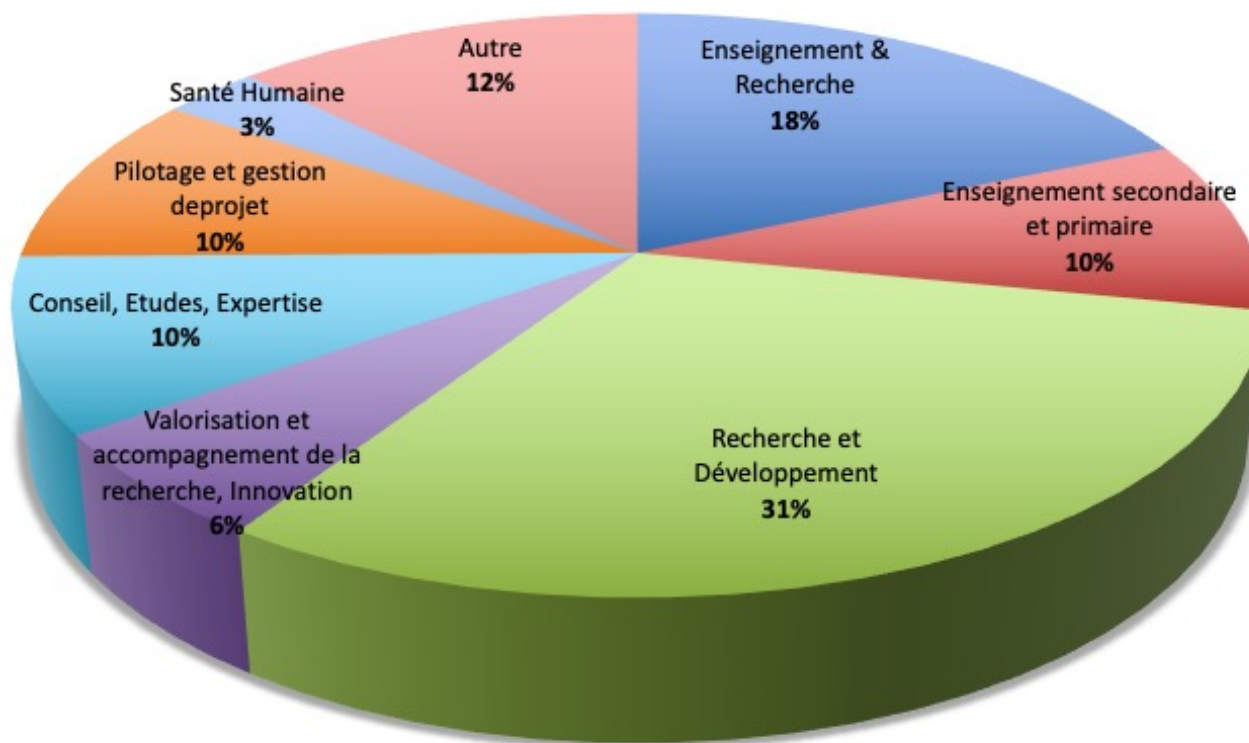
# Theses of the EDNC

## ❖ Financial supports for thesis – Nov. 2021



# After Thesis

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



# Individual PhD monitoring committee (CSI)

## 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 for ED

### *First Year:*

- *scientist report (5 pages)*
- *annual balance sheet*

### *Second Year:*

- *mid-term defense*
- *annual balance sheet*

### *Third Year:*

- *annual balance sheet*



# Individual PhD monitoring committee (CSI)

## 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.*

# Mediation

In the event of an issue with PhD thesis conditions:

- ⇒ the referent teacher and/or the PhD student will inform the EDNC management,
- ⇒ 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.

# Animation of EDNC

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

# PhD Student Journey

Date	Milestone
<i>November 2021</i>	EDNC Welcome Meeting
<i>January-April 2022</i>	Choice of Referent teacher
<b>May-June 2022</b>	<b>Meeting with the referent teacher + 1<sup>st</sup> year report</b>
<i>July 2022</i>	Daylong symposium of the doctoral school 2022
<b>June 2023</b>	<b>Middle term Ph-D defense (report + defense)</b>
<b>May-June 2023</b>	<b>Meeting with the referent teacher + 2<sup>nd</sup> year report</b>
	⇒ authorization to register for the 3 <sup>rd</sup> year of the thesis
<i>July 2023</i>	Daylong symposium of the doctoral school 2023
<b>May-June 2024</b>	<b>Meeting with the referent teacher + 3<sup>rd</sup> year report</b>
<i>July 2024</i>	Daylong symposium of the doctoral school 2024
<i>September-December 2024</i>	Ph-D defense

# PhD Student Journey

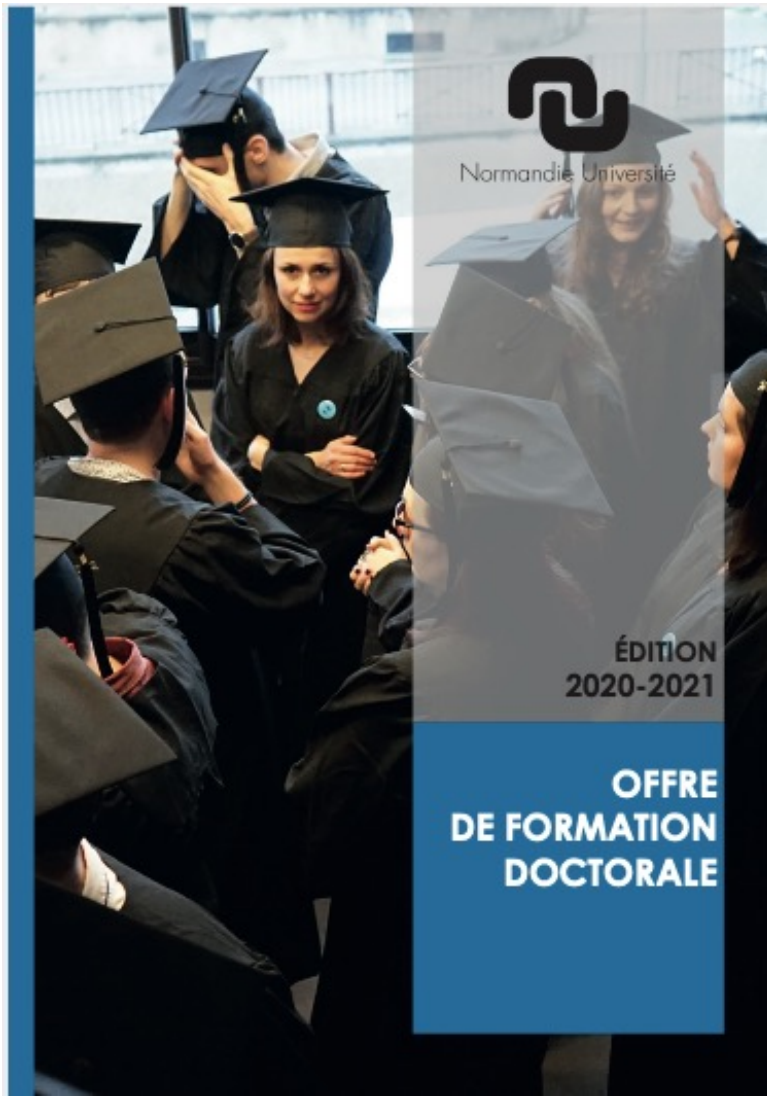
- ❖ To allow the PhD student to communicate in a congress
  - => Financial support of EDNC for congress:
    - 200 euros for national congress
    - 300 euros for international congress

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

- ❖ 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



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❖ A mandatory training: **Scientist ethic**

# Doctoral training program

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## **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

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- **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**

## **Profesional seminars:**

- **« Créer & Innover » => Support PhD students in a business creation project and / or activity**
- **« Doctorial » => Preparation for professional integration of doctoral students**
- **Visite des institutions européennes**



# 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>

# Criteria for Defence

## Criteria for Defence

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

=> Modulation 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 ... (see EDNC website)



## Welcome Meetings of Normandie University

- general organisation of the PhD in Normandy ;
- organisation of the Norman campuses and their resources ;
- presentation of the main actors who accompany doctoral students during and after their thesis .

- **Caen** : lundi 22 novembre 2021, 9h-11h, Amphi Léon Walras, Campus 4, 3 rue Claude Bloch ;

- **Rouen** : mardi 30 novembre 2021, 9h-11h, Amphi B250, UFR Droit Sci. Eco Gestion ; 3 av. Pasteur ;

- **Le Havre** : programmation en cours.



## 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

