

# YOUR PHD AT THE UNIVERSITÉ DE LYON

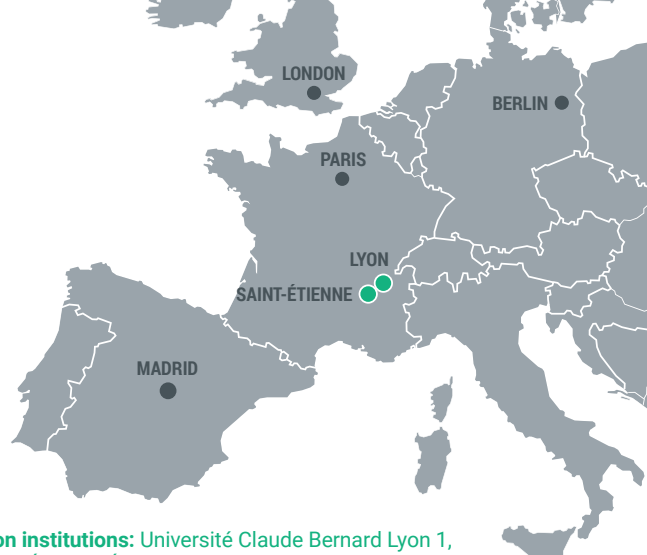
Give your future  
a chance

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UNIVERSITÉ  
DE LYON

# WHY CHOOSE THE UNIVERSITÉ DE LYON FOR YOUR PHD?



## THE UNIVERSITÉ DE LYON IN NUMBERS:

1 PhD degree pursued in one of the Université de Lyon's 9 accredited higher education institutions: Université Claude Bernard Lyon 1, Université Lumière Lyon 2, Université Jean Moulin Lyon 3, Université Jean Monnet Saint-Étienne, École normale supérieure de Lyon (ENS de Lyon), École centrale de Lyon, Institut national des sciences appliquées de Lyon (INSA Lyon), Mines Saint-Étienne, and École nationale des travaux publics de l'État (ENTPE).

### Key figures



17

DOCTORAL SCHOOLS:  
7 IN EXACT SCIENCES, 6 IN HUMANITIES AND SOCIAL SCIENCES, AND 4 IN LIFE SCIENCES



5,300

PHD STUDENTS, INCLUDING 1,915 INTERNATIONAL STUDENTS



1,000

PHD DEGREES AWARDED EACH YEAR



455

INTERNATIONAL JOINT DEGREES

## 17 DOCTORAL SCHOOLS COVERING ALL FIELDS OF RESEARCH

The doctoral schools, accredited by the Ministry of Higher Education and Research, supervise and train students during the **three years of their doctoral studies**. The doctoral schools recruit students who hold a Master's degree (or equivalent) on the basis of their scientific excellence, motivation and academic merit. PhD students join a research team and are supervised by a thesis supervisor who has an *habilitation* (French post-doctoral certification for supervising research work). The 17 doctoral schools of the Université de Lyon cover all disciplines of research: exact sciences, humanities and social sciences, and life sciences.

## BOTH A SCIENTIFIC AND A PROFESSIONAL TRAINING

As a PhD student enrolled in one of the doctoral schools of the Université de Lyon, you will benefit from a **doctoral training appropriate to both your research goals and your career plan**. You will not only benefit from scientific training validated and organized by your doctoral school, but you will also be invited to follow cross-disciplinary courses. After discussion with, and approval by, your doctoral school director and thesis supervisor, you may choose cross-disciplinary courses among a training course catalogue of about 70 courses, all aiming at helping you prepare your professional project.

The training course **catalogue** (French catalogue: <http://www.universite-lyon.fr/doctorat>) provides a wide variety of courses. Some of the topics include entrepreneurship, intellectual property, job-search skills, scientific communication, project management, teamwork, corporate knowledge, knowledge management and corporate culture.

**French courses** suitable to all language levels are also available to international PhD students.

### The employability of PhD students

Your employability is the Université de Lyon's top priority.

Therefore, the Université de Lyon provides you with opportunities to enhance your career development. For instance a "Journée pour l'emploi des docteurs" (Doctor Employment Day) is organized twice a year, where you are able to meet PhD graduates who come to share their professional experience. During these days you will have the opportunity to participate in a variety of skill-based workshops to prepare you for your career development, as well as simulate job interviews.

Each year, the Université de Lyon conducts a survey on the work situation of PhDs two years after their graduation.

On December 1<sup>st</sup> 2015, 92% of graduates who obtained their PhD in 2013 in exact sciences had found a job. The rates are 88% for a degree in life sciences, and 84% in humanities and social sciences.



92% EXACT SCIENCES

● Public sector  
● Private sector



88% LIFE SCIENCES

● Public sector  
● Private sector



84%

HUMANITIES AND SOCIAL SCIENCES

● Public sector  
● Private sector

What PhD graduates say when asked "Would you do it again?" 83% of PhD graduates answer "yes".

## LIFE SCIENCES

### ● Doctoral School ED 205 – Interdisciplinary Health - Sciences (EDISS)

**Director:** Emmanuelle CANET-SOULAS  
**Contact:** secretariat.ediss@univ-lyon1.fr  
**Website:** <http://www.ediss-lyon.fr>

**Disciplines, research areas:**

Integrated physiology and extreme conditions • Structural and functional biochemistry • Biomedical engineering • Nutritional metabolism and endocrine regulation • Healthcare systems analysis • Osteoarticular biology, biomechanics and biomaterials • Cardiovascular pathophysiology and pharmacology • Sports and performance • Skin physiology, bioavailability, pharmacology

### ● Doctoral School ED 340 – Molecular, Integrative and Cellular Biology (BMIC)

**Director:** Françoise MONEGER  
**Contact:** roxane.leclaire@ens-lyon.fr  
**Website:** <http://edbmic.universite-lyon.fr>

**Disciplines, research areas:**

Molecular and cellular biology • Integrative biology (organs and organisms) • Comparative and evolutionary biology • Systems biology

### ● Doctoral School ED 341 – Evolution, Ecosystems, Microbiology, Modeling (E2M2)

**Director:** Fabrice CORDEY  
**Contact:** secretariat.E2M2@univ-lyon1.fr  
**Website:** <http://e2m2.universite-lyon.fr>

**Disciplines, research areas:**

Paleoenvironment and evolution • Microorganisms, interactions, infections • Evolutionary biology, population biology, ecophysiology • Biomathematics, bioinformatics, evolutionary genomics • Community ecology, functioning of ecosystems, ecotoxicology



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### ● Doctoral School ED 476 – Neurosciences and Cognition (NSCo)

**Director:** Anne DIDIER  
**Contact:** evelyne.robin@adm.univ-lyon1.fr  
**Website:** <http://nsco.universite-lyon.fr>

**Disciplines, research areas:**

Neurosciences • Natural cognition • Cognitive psychology • Neuroimaging • Neurophysiology • Functional neurobiology • Neuropharmacology • Clinical neurosciences

## EXACT SCIENCES

### ● Doctoral School ED 34 – Lyon Materials (EDML)

**Director:** Jean-Yves BUFFIERE  
**Contact:** ed-materiaux@insa-lyon.fr  
**Website:** <http://ed34.universite-lyon.fr>

**Disciplines, research areas:**

Development and characterization of materials • Determination of their physical, mechanical, chemical and biological properties • Modeling the relationships between composition, microstructure and properties • Nanoscience, nanomaterials and their applications in healthcare

### ● Doctoral School ED 52 – Physics and Astrophysics (PHAST)

**Director:** Christophe DUJARDIN  
**Contact:** s.flores@ipnl.in2p3.fr  
**Website:** <http://phd-physics.universite-lyon.fr>

**Disciplines, research areas:**

Astrophysics • Subatomic physics • Optics and lasers • Materials for optics and optoelectronics • Nanoscience and nanomaterials • Nonlinear physics • Interfaces between physics and health, physics and biology, physics and chemistry

### ● Doctoral School ED 160 – Electronics, Electrical Engineering, Automation (EEA)

**Director:** Gérard SCORLETTI  
**Contact:** marie-christine.havgoudoukian@ec-lyon.fr  
**Website:** <http://edeea.ec-lyon.fr>

**Disciplines, research areas:**

Electronics, electrical engineering, automation and signal processing in the following areas: Energy and systems • Information technologies and health • Micro and nanotechnologies

### ● Doctoral School ED 162 - Mechanical Engineering, Energetics, Civil Engineering and Acoustics (MEGA)

**Director:** Philippe BOISSE  
**Contact:** mega@insa-lyon.fr  
**Website:** <http://edmega.universite-lyon.fr>

**Disciplines, research areas:**

Mechanical engineering • Energetics • Civil engineering • Acoustics

### ● Doctoral School ED 206 – Lyon Chemistry

**Director:** Stéphane DANIELE  
**Contact:** secretariat@edchimie-lyon.fr  
**Website:** <http://www.edchimie-lyon.fr>

**Disciplines, research areas:**

Chemistry • Environment • Processes



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### ● Doctoral School ED 488 - Science, Engineering, Health (SIS)

**Director:** Christophe DESRAYAUD  
**Contact:** monique.gillier@univ-st-etienne.fr  
**Website:** <http://edsis.universite-lyon.fr>

**Disciplines, research areas:**  
 Materials and process engineering • Optics-vision • Sports-engineering-health

### ● Doctoral School ED 512 - Computer Science and Mathematics (InfoMaths)

**Director:** Sylvie CALABRETTO  
**Contact:** infomaths@infomaths.univ-lyon1.fr  
**Website:** <http://edinfomaths.universite-lyon.fr>

**Disciplines, research areas:**  
**Computer science:** Complex systems • Parallel computing • Computer arithmetic • Model-based enhanced reality • Images and videos • Computer-based interactions  
**Mathematics:** Logic • Number theory • Algebra • Geometry • Analysis • Probability • Statistics • Mathematical physics • Modeling and scientific computing

## HUMANITIES AND SOCIAL SCIENCES

### ● Doctoral School ED 483 – History, Geography, Urban Planning and Design, Archeology, Political Science, Sociology, Anthropology (ScSo)

**Director:** Christian MONTES  
**Contact:** viviane.polsinelli@univ-lyon2.fr  
**Website:** <http://recherche.univ-lyon2.fr/scso>

**Disciplines, research areas:**  
 History • Archaeology • Art history • Sociology • Ethnology • Anthropology • Geography • Town planning, urbanism • Architecture • Political science • Demographics

### ● Doctoral School ED 484 – Literature, Languages, Linguistics, Art (3LA)

**Director:** Olivier FERRET  
**Contact:** bertrand.jacquet@univ-lyon2.fr  
**Website:** <http://edhum.univ-lyon2.fr>

**Disciplines, research areas:**  
 French language and literature • French-language literature • General and comparative literature • Ancient languages and literature • British and North American studies, German and Scandinavian studies, Arab, Asian, Romance and Slavic studies • Linguistics • Semiology • French as a foreign language • Plastic arts • Aesthetics • Cinema and audiovisual studies • Theatre and performing art studies • Musicology

### ● Doctoral School ED 485 – Education Sciences, Psychology, Information and Communication Sciences and Technology (EPIC)

**Director:** Nikos KALAMPALIKIS  
**Contact:** brigitte.dubois@univ-lyon2.fr  
**Website:** <http://recherche.univ-lyon2.fr/epic>

**Disciplines, research areas:**  
 Education sciences • Sociology, anthropology • History and philosophy of education • Clinical psychology and psychopathology • Social, health, individual and group psychology • Language and science teaching • Epistemology • History of science and technology • Information and communication sciences • History and sociology of sports • Politics of science • Economics of innovation and conceptual sciences

### ● Doctoral School ED 486 – Economics and Management Sciences (SEG)

**Director:** Christophe EVERAERE  
**Contact:** edseg@univ-lyon3.fr  
**Website:** <http://edseg.univ-lyon3.fr>

**Disciplines, research areas:**  
 Labor and business economics, environmental and transportation economics, health economics, industrial economics, public economics, geographical economics, behavioral and experimental economics • Game theory • Applied microeconomics • Econometrics • Macroeconomics and finance • History of economic analysis • Marketing, strategy and management • Corporate governance • Market finance • Financial analysis • Human resources • Risk analysis • Actuarial sciences • Insurance theory

### ● Doctoral School ED 487 – Philosophy: History, Representation and Creation (Philo)

**Director:** Jean-Philippe PIERRON  
**Contact:** antonio.closa@univ-lyon3.fr  
**Website:** <http://ecoledocphilo.universite-lyon.fr>

**Disciplines, research areas:**  
 History of philosophy • Metaphysics • History of ideas • Aesthetics and symbolic systems • Epistemology of formal languages • Political philosophy • Medical ethics • Sustainable development

### ● Doctoral School ED 492 - Law

**Director:** David DEROUSSIN  
**Contact:** edd@univ-lyon3.fr  
**Website:** <http://www.eddroit.universite-lyon.fr>

**Disciplines, research areas:**  
 Law • Private law • Public law • History of law • Political science

## HOW TO APPLY?

### Prior to your application, you must:

- Hold a Master's degree or equivalent demonstrating your ability to conduct research
- Have identified a thesis supervisor and a thesis theme in one of the research laboratories of the Université de Lyon
- Have obtained funding or have applied for a doctoral contract organized by the doctoral school (during the second quarter of the calendar year)

You will find on the websites of the doctoral schools or on [www.universite-lyon.fr/doctorat](http://www.universite-lyon.fr/doctorat) (French website) a list of themes and the laboratories that correspond with your research project.

### At time of application, you are required to carry out two separate registrations, each year:

- A "course registration" at a doctoral school
- An "administrative registration" at the institution of your thesis supervisor

### Thesis charter of the Université de Lyon:

At time of application, together with your thesis supervisor, research laboratory director and doctoral school director, you are required to sign the thesis charter. This charter guarantees the high scientific standards of the thesis and ensures its smooth and proper conduct by defining the rights and responsibilities of all parties.

### International jointly supervised thesis:

The Université de Lyon supports joint PhD degrees, which offer students the opportunity to obtain simultaneously a PhD degree from the Université de Lyon and an equivalent degree from an international university after a single thesis defense.

Each year, the PhD student is enrolled simultaneously in the two institutions and conducts his/her research alternatively in the two research laboratories, under the responsibility of two thesis supervisors.

Specific funding is available (joint degree scholarship, mobility scholarship).

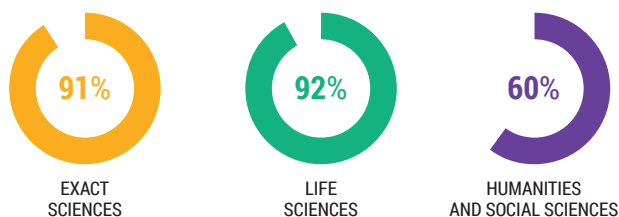
> For further information: please contact the department of Doctoral Studies at the Université de Lyon



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## HOW TO FINANCE YOUR PHD DEGREE?

Thesis funding by discipline (2013 figures exclusively for doctoral contracts, other paid activities are not included):



Several types of financial support are available. In some doctoral schools, your registration is determined by your having obtained sufficient funding to complete all three years of your doctoral training.

### Doctoral contracts (funded by the French Ministry of Higher Education and Research)

The doctoral contract is an employment contract of three years thanks to which the institution hires a PhD student. Recruitment is by competition, and is organized by the doctoral school. There are no conditions regarding age or nationality.

> For further information: please visit the websites of the doctoral schools

### Financing of research projects (funded by the Région Auvergne-Rhône-Alpes, French National Research Agency, European Commission)

These funds, allocated in support of a research project to a team, result in an employment contract between the institution (or research organization) and the PhD student.

> For further information: please visit the websites of the doctoral schools and research units

### Industry-sponsored funding (CIFRE: Convention industrielle de formation par la recherche)

This funding involves an agreement between three partners around a common research project: a corporation, a student and a research laboratory. The PhD student is recruited and employed by the company, on a fixed-term or permanent contract.

> For further information: please visit [www.anrt.asso.fr](http://www.anrt.asso.fr) (ANRT: Association nationale de la recherche et de la technologie) or <http://www.doctorentreprise.fr/>

### Funding by the French Ministry of Foreign and European Affairs (MAEE), foreign governments, and bilateral cooperation agencies

International applicants must apply directly to these organisms prior to their departure to obtain all useful information.

For MAEE scholarships, please contact the cultural service of the French embassy in your country.

> For further information: please visit the directory of scholarship programs on [www.campusfrance.org](http://www.campusfrance.org)

### Scholarships from foundations and associations

These scholarships are common in medical research. PhD students must apply directly. This type of funding results in an employment contract between the institution (or research organization) and the PhD student.



## CONTACT

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