There are only good reasons to do your PhD in Toulouse!
The 15 Doctoral Schools (ED) of the University of Toulouse offer a comprehensive portfolio of PhD programs in all disciplines.

**Entry requirements**

Are eligible to the PhD programs: the students holding a Master’s Degree or equivalent (i.e: Master’s Degree /track research, Master’s Degree of Science, Professional Master’s Degree) or an engineer’s degree. The pre-requisites will be assessed by the Doctoral School of interest to the applicant.

**Application procedures**

The Doctoral Schools and research laboratories of the University of Toulouse have a multi-faceted research profile and can provide the students with a range of research topics. The students can also contact the relevant Doctoral School for counseling and guidance by a designated University of Toulouse supervisor which will help them build their research project. Once the project has been accepted by the thesis supervisor, the host laboratory and the Doctoral School, the applicants can enroll or can be given a certificate allowing them to enroll.

**Funding**

Applicants are requested to arrange their funding before joining a Doctoral School (especially in science and technology). The funding must cover the three years of study to enable them to be entirely dedicated to their research activities. Funding is available from a range of sources: higher education and research PhD contracts, external funding by industry or foreign governments, French National Research Agency aid for research-based projects, European programs, bilateral financial aid for co-supervised theses…

**Beware !**

1000 euros a month is the minimum amount requested to apply for a PhD program*.  

* May not be compulsory in some doctoral schools.
Thesis co-supervision

Thesis co-supervision facilitates PhD students’ mobility. Its terms (registration, mobility scheme, viva jury, oral defense, etc...) are stated in the agreement signed by the two participating institutions. The students conduct their work in two research laboratories under the joint supervision of two Researchers. They defend their thesis before a jury comprising members of both institutions. Following the satisfactory completion of their Doctorate, they are awarded the PhD degree in the two partner universities.

The Doctorate

Doctoral studies consist in completing a scientific work (often contract-based) conducted in a research laboratory over a period of three years. This first professional experience goes together with the writing and defense of a thesis (the “in viva” can be in English). The PhD students are also requested to prepare their entry on the job market in the private or public sector, in France or abroad. The Doctoral School of Toulouse supports their mobility projects and provides a unique environment to help them get a job or set up their own company.

And next?

Many newly PhD graduates opt for a research career in public research laboratories or intend to become researcher-lecturers at university. But they can also gain jobs in the private sector. Thanks to their high level of expertise, they can join the R&D departments of leading companies; their cross-disciplinary competences make them highly eligible for regional authorities, NGOs, non-profit organizations…. Their know-how, sense of creativity, communication and project management skills and their experience team-work are as many valuable assets to secure successful positions in many sectors of activity.
Aeronautics & Astronautics

Aeronautics
• Aircraft Multidisciplinary Design
• Space systems
• Space Missions
• Safety and Risk Management of Air Traffic

Performance optimisation and cost reduction
• Environmental impact of aircraft and spacecraft
• Embedded systems
• Robotics

RESEARCH LABORATORIES AND HIGHER EDUCATION INSTITUTIONS

- ONERA (French aerospace lab) : http://onera.fr/dcsd
- Higher Education Institutions : ENAC, INSA, INPT
- ISAE : http://recherche.isae.fr/
- Universities :
  Université Toulouse III Paul Sabatier, Université Toulouse 1 Capitole, Université Toulouse – Jean Jaurès
- Industrial Companies (Eurocopter, EADS, Airbus, Astrium, THALES, SAFRAN, etc)

KEY FIGURES

50 students (around 20% of foreign students)
15 PhD awarded per year
Art, Literatures, Languages, Philosophy, Information & Communication

The ALLPHA® Doctoral School admits students in the following fields:

- Arts (theatre and dance, film, music, applied)
- World Literatures
- Philosophy
- Modern Foreign Languages (English, Spanish, German, Italian, Portuguese, Russian and Polish)
- Information and Communication Sciences

KEY FIGURES

310 students (35% foreign students)
97 researchers and academics
39 PhD degrees awarded per year
11 Research laboratories

RESEARCH LABORATORIES

- LLA/CREATIS EA 4152: Literature, Languages and Arts
- PLH EA 4153: Patrimony, Literature, Hermeneutics, Cultural legacy
- CAS EA801: British, American, and Commonwealth Studies
- ERRAPHIS EA 3051: Research on Philosophical Rationality and Knowledge
- LAIRDIL EA 3695: Foreign Language Learning and Teaching
- LERASS EA 82: Applied Research in Social Science
- CREG EA 1940: Research Centre for German Studies
- LARA, EA 4154: Audiovisual Research Centre
- L’IRIEC: Cultural Studies Centre
- CERTOP UMR CNRS 5044: Research Group on Communication, Risks, Health and Environmental Issues
  II LABORATORIO: Italian Studies Centre

Biology, Health & Biotechnologies

The ALLPHA® Doctoral School admits students in the following fields:

- Structural and functional biology
- Molecular biology
- Molecular genetics
- Metabolic & cardiovascular diseases
- Cell biology
- Cancer Research
- Developmental Biology
- Microbiology
- Neurasciences
- Physiopathology
- Immunology
- Pharmacology
- Epidemiology
- Anthropobiology
- Bioethics

KEY FIGURES

360 students (20% foreign students)
705 researchers and academics
88 PhD degrees awarded per year
30 laboratories

RESEARCH LABORATORIES

- Institute of Pharmacology and Structural Biology (IPBS): http://www.ipbs.fr/
- Physiopathology Center of Toulouse (CPTP):
  http://www.toulouse.inserm.fr/site/u663/
- Institute of Metabolic and Cardiovascular Diseases (I2MC):
  http://i2mr.toulouse.inserm.fr/
- Toulouse Cancer Research Center (CRCT):
  http://www.toulouse-illimages.inserm.fr/fr/laboratoires/zones_geographiques/toulouse/unite_1037.html
- Research Center on Food Toxicology (TOXALIM):
  http://www.toulouse.inra.fr/pharmacologie_toxicologie/
- Center for Developmental Biology (CBD):
  http://www.cbd.ups-tlse.fr/
- Lab. of Microbiology and Molecular Genetics (LMGM):
  http://www-lmgm.biotoul.fr/
- Lab. of Eukaryotic Molecular biology (LBBM):
  http://www-lbbm.biotoul.fr/
- Lab. of Molecular and Cellular biology of Proliferation Control (LCMCP):
  http://www-lcmcp.ups-tlse.fr/
- Research Center on Animal Cognition (CRCA):
  http://cognition.ups-tlse.fr/
- Lab. of Molecular Anthropobiology and Computer Imaging (AMIS):
  http://www.anthropobiologie.cict.fr/
- Lab. of Pharmacochemistry of Natural Substances (LPISNPR):
  http://www.lpisnpr.ups-tlse.fr/
- Lab. of Epidemiology and Public Health Analyses:
  http://www.u588.toulouse.inserm.fr/
- Lab. of Epidermal Differentiation and Rheumatoid Autoimmunity
Mathematics, Computer science & Telecommunications

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<tr>
<th>SCIENTIFIC DOMAINS</th>
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<tbody>
<tr>
<td>• Algebra</td>
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<td>• Analysis</td>
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<td>• Geometry</td>
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<td>• Probability</td>
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<td>• Scientific computing</td>
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<td>• Partial differential equations</td>
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<td>• Image Analysis and Synthesis</td>
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<td>• Indexing and Information search</td>
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<td>• Interaction</td>
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<th>KEY FIGURES</th>
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<tr>
<td>480 students (40% foreign students)</td>
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<td>630 researchers and academics</td>
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<td>99 PhD awarded per year</td>
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<td>13 laboratories</td>
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Behavior, Language, Education, Socialisation & Cognition

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<th>SCIENTIFIC DOMAINS</th>
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<tr>
<td>• Ergonomics</td>
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<td>• Education sciences</td>
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<td>• Language sciences</td>
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<td>• Human movement sciences</td>
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<tr>
<th>RESEARCH LABORATORIES</th>
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<tr>
<td>• CLE - Cognition, Langues, Langage, Ergonomie : UMR 5263</td>
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<td>• EFTS - Education, Formation, Travail, Savoirs: UMR MA 122</td>
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<td>• OCTOGONE - Unité de recherche interdisciplinaire : EA 4156</td>
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<td>• LPCI - Laboratoire de Psychologie Clinique, Psychopathologique et Interculturelle : EA 4591</td>
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<td>• PDPS - Psychologie du Développement et Processus de Socialisation : EA 1697</td>
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<td>• CERCO - Centre de Recherche Cerveau et Cognition : UMR 5549</td>
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<td>• INSERM - Laboratoire d’Épidémiologie et Analyse en Santé Publique (U9-INSERM)</td>
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<td>• GREMAQ - Groupe de Recherche en Economie Mathématiques Quantitatives (CNRS-U9-INSERM)</td>
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<td>• UPR 8001 - LAAS : Laboratoire d’Analyse et d’Architecture des Systèmes (CNRS)</td>
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<td>• UPR 875 - Unité de Biométrie et Intelligence Artificielle (INRA)</td>
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<td>• Laboratoire d’Optimisation Géolocalisée (ENAC-CENA)</td>
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<tr>
<td>• URE CNS - Unité de Recherche et d’Expertise sur les Systèmes de Communication, Navigation, Surveillance (ENAC)</td>
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<td>• UMR 5277 - IRAP - Équipe Signal Image pour les Sciences de l’Univers (ISAE-ONERA)</td>
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<tr>
<td>• MOIS - Modélisation et Ingénierie des Systèmes (ISAE-ONERA)</td>
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<tr>
<td>• SCANR - Signal, Communication, Antennes, Navigation, Radars (ISAE-ONERA)</td>
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<tr>
<td>• Équipe Projet Algorithme Parallèle (CERFACS)</td>
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<th>KEY FIGURES</th>
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<tr>
<td>291 students (24% foreign students)</td>
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<td>291 researchers and academics</td>
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<tr>
<td>53 PhD awarded per year</td>
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<tr>
<td>9 laboratories</td>
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Electrical, Electronic, Engineering & Telecommunications

SCIENTIFIC DOMAINS
- New Power electron devices, integration, modeling and processing
- Materials for energy conversion and integrated systems, converters, command and diagnostic
- Optronics and imaging circuits, System On Chip
- Light sources and applications, photovoltaic, OLED systems
- Nanophotonic engineering quantum well Lasers, VECSELS
- Nano Silicon Devices spintronic-mesoscopic issues
- Nanobiotechnologies
- Micro-Nanofluidics and related embedded systems
- MEMS RF and smart dusts for communications
- MEMS for structure control and indoor communications
- Microwave and optical devices, electrical noise, MMIC circuits, antennas and related electromagnetic issues
- Sensors and Microsystems for gas and live species detection
- Dielectric materials, processing-and reliability
- Materials and plasma applications, modeling and processing
- Medical radiophysics and Imaging

RESEARCH LABORATORIES
- Lab. on Optronics-Laser-Physical Imaging, Space Environment (OLIMPES) : http://recherche.isae.fr/olimpes
- Cerebral Imagery and Neurologic Handicap (INSERM 825) : http://www.u825.toulouse.inserm.fr
- Molecular Medicine Institute (INSERM 858) : http://www.dhutoulouse.fr
- Lab. on Space and Medical Imaging (LERISM)
- Simulation, Instrumentation and Materials for Dosimetric Applications (SIMAD) : http://simad-ups.fr/
- Center for Materials Elaboration and Structural Studies (CEMES) : http://www.cemes.fr
- High Magnetic Field National Laboratory (LNCMI) : http://www.lncmp.org/
- Lab on Production Engineering (LGP) : http://www.enit.fr/sr/404/index.php
- Joint Labs : “PRIME” (ALSTOM Industry), “Pix-Cell” (ESSILOR Industry)

KEY FIGURES
- 300 PhD’s in progress
- 320 researchers and academics
- 58 PhD awarded and several distinctions awarded each year
- 10 main laboratories and 2 joint industrial/academics laboratories

Management Science

SCIENTIFIC DOMAINS
- Accounting, auditing & accountability
- Finance
- Information systems
- Human resource management
- Marketing
- Production and operations management
- Strategy

RESEARCH LABORATORIES
- Center for Research in Management (CRM) - Toulouse Graduate School of Management : http://crm.univ-toulouse.fr (University of Toulouse 1)
- Cognition and Management Lab (LGCI) : http://www.lgci-lru-tlse3.fr (University of Toulouse III)

KEY FIGURES
- 70 students (55% of foreign students)
- 105 researchers and academics
- 10 PhD degrees awarded per year
- 3 laboratories
**Material Sciences**

- Theoretical physics
- Statistical physics
- Biophysics
- Theoretical and computational chemistry
- Molecular modelling and dynamics
- Atomic and molecular clusters
- Laser-matter interaction
- High magnetic fields
- Electronic and optical spectroscopy
- Biomaterials
- Multifunctional materials
- Transition metal chemistry
- Molecular chemistry
- Heterochemistry
- Polymers
- Biochemistry
- Catalysis
- Agro-industrial chemistry

**RESEARCH LABORATORIES**

- Center for Materials Elaboration and Structural Studies (CEMES) : http://www.cemes.fr
- Lab. for Collisions, Clusters, and Reactivity (LCAR) : http://www.lcar.ups-tlse.fr
- Lab. for Agro-Industrial Chemistry (LCA) : http://lca.ensiacet.fr
- Lab. for Transition-Metal Chemistry (LCC) : http://www.lcc-toulouse.fr
- Lab. of Theoretical Physics (LPT) : http://www.lpt.ups-tlse.fr
- The Production Engineering Research Laboratory (LGP) : http://www.enit.fr/sr/174/index.php

**ChIFFRES-CLéS**

- 380 students (40% international students)
- 114 PhD awarded per year
- 11 key research laboratories (CNRS, INRA…)

**KEY FIGURES**

- 400 students (1/3 foreign students)
- 500 researchers and academics
- 138 PhD awarded per year
- 15 laboratories
**SCIENTIFIC DOMAINS**

- Astronomy & Astrophysics
- Space Sciences
- Earth and Planetary Sciences Geodesy
- Remote Sensing
- Climatology
- Meteorology & Atmospheric Sciences
- Oceanography
- Marine Chemistry & Biology
- Continental Surfaces Studies
- Geology
- Geochemistry
- Hydrology
- Hydrochemistry
- Cryospheric Sciences
- Soil Sciences
- Environmental Sciences
- Ecology
- Biodiversity
- Ecology and Evolution
- Food security and safety
- Agrosystems, Ecosystems and Environment
- Enzyme and Microorganisms Engineering
- Plants-Microorganisms Interactions
- Plant Development
- Pathology, Parasitology
- Toxicology
- Modelling of biological systems
- Genetic and Nutrition

**KEY FIGURES**

- 236 students (1/3 foreign students)
- 430 researchers and academics
- 58 PhD awarded per year
- 14 laboratories

**RESEARCH LABORATORIES**

- Centre for the Study of Radiation in Space (CESR) : http://www.cesr.fr/
- Center for the Study of the Biosphere from Space (CESBIO) : http://www.cesbio.ups-tlse.fr/
- European Center for Advanced Training and Research in High Performance Computing (CERFACS) : http://www.cerfacs.fr/
- Environmental Data Collection and Location from Space (CLS) : http://www.cls.fr/
- Institute of Fluid Mechanics of Toulouse (IMFT) : http://www.imft.fr/
- Laboratory for the Study of Oceanography and Geophysics from Space (LEGOS) : http://www.legos.obs-mip.fr/
- Laboratory for Earth and Planetary Dynamics (DTP) : http://www.dtp.ims-lab.fr/
- Laboratory of Aerosol (LA) : http://www.aero.ims-lab.fr/
- Laboratory of Astrophysics in Toulouse and Tarbes (LATT) : http://www.ast.obs-mip.fr/
- Laboratory of Functional Ecology (ECOLAB) : http://www.ecolab.ims-lab.fr/
- Laboratory of Functional Ecology and Environmental Physics (EPHYSE) : http://www.bordeaux-aquitaine.inra.fr/ephyse/
- Laboratory of Geological Processes and Transports (LMTG) : http://www.lmtg.ims-lab.fr/
- National Center for Meteorological Research (CNRM) : http://www.cnrm.meteo.fr/

**SCIENTIFIC DOMAINS**

- Biodiversity
- Ecology and Evolution
- Food security and safety
- Agrosystems, Ecosystems and Environment
- Enzyme and Microorganisms Engineering
- Plants-Microorganisms Interactions
- Plant Development

**KEY FIGURES**

- 250 students (1/3 foreign students)
- 360 researchers and academics
- 60 PhD awarded per year
- 69 research teams
- 24 laboratories

**RESEARCH LABORATORIES**

- Laboratory of Plant-Microbe Interactions – LIPM : http://www.2.toulouse.inra.fr/centra/lipm/
- Chemical Engineering Laboratory – LGC : http://lgc.insa.toulouse.fr/
- Station of Animal Genetic Improvement – SAGA : http://www.saga.toulouse.inra.fr/
- Station of Experimental Ecology – SEEM : http://www.ecoex-moulis.cnrs.fr/index2.htm
- Research Centre in Food Toxicology – TOXALIM : http://www.4.toulouse.inra.fr/toxalim/accueil
Increasingly complex systems are being conceived and exploited, covering a wide range of applications from stand-alone systems (such as the control of a machine) to global systems (such as the conception of products or services). The notion of integration is fundamental in the conception and implementation of a system. The Systems Doctoral School focuses on organization, analysis, conception, control, command and implementation of integrated systems by proposing five Areas of expertise for a large field of applications spectrum:

- **Areas of expertise**
  - Automatic control
  - Industrial Engineering
  - Computer Sciences
  - Embedded Systems
  - Robotics

- **Fields of application**
  - Space and aeronautic systems
  - Goods and services production systems
  - Robotic systems
  - Environment, transport and health

**RESEARCH LABORATORIES**

- CGI - The Industrial Engineering Center: [www��统@univ-toulouse.fr](http://www.系姆@univ-toulouse.fr)
- CSDV - Systems Control and Flight Dynamic (ISAE-ONERA): [www.系姆@univ-toulouse.fr](http://www.系姆@univ-toulouse.fr)
- ICA - Clément Ader Institute: [www.系姆@univ-toulouse.fr](http://www.系姆@univ-toulouse.fr)
- LAAS - Laboratory for Analysis and Architecture of Systems: [www.系姆@univ-toulouse.fr](http://www.系姆@univ-toulouse.fr)
- LAPLACE - Laboratory for Plasma and Conversion of Energy: [www.系姆@univ-toulouse.fr](http://www.系姆@univ-toulouse.fr)
- LGC - Laboratoire de Génie Chimique: [http://www.系姆@univ-toulouse.fr](http://www.系姆@univ-toulouse.fr)
- LGP - The production engineering research laboratory: [http://www.系姆@univ-toulouse.fr](http://www.系姆@univ-toulouse.fr)
- RESCO - RESeaux de COMmunication de données - ENAC: [www.系姆@univ-toulouse.fr](http://www.系姆@univ-toulouse.fr)

**SCIENTIFIC DOMAINS**

- **Legal and Political Sciences**
  - National and European legal orders, relationships and reciprocal influences
  - Constitutional and political changes
  - Risk globalisation and security policies (internal and external aspects)
  - Normativity mutations in the domain of juridical acts and law of persons
  - Emerging new goods and their incidence upon juridical operations
  - Responsibilities: rupture and rebuilding

- **Systems**
  - Increasingly complex systems are being conceived and exploited, covering a wide range of applications from stand-alone systems (such as the control of a machine) to global systems (such as the conception of products or services). The notion of integration is fundamental in the conception and implementation of a system. The Systems Doctoral School focuses on organization, analysis, conception, control, command and implementation of integrated systems by proposing five Areas of expertise for a large field of applications spectrum:

**KEY FIGURES**

- **Legal and Political Sciences**
  - 480 students (40% foreign students)
  - 135 researchers and academics
  - 55 PhD awarded per year
  - 11 research units

- **Systems**
  - 200 students (50% foreign students)
  - 200 researchers and academics
  - 33 doctoral degrees awarded per year
  - 8 laboratories (19 research teams)
### Toulouse School of Economics

**Time, Spaces, Societies, and Cultures**

**SCIENTIFIC DOMAINS**

- Archeology (from prehistory to industrial ages)
- History (from Antiquity to Contemporary times)
- Architecture
- Geography

- Economics
- Sociology
- Research on agribusiness innovation and organization

**RESEARCH LABORATORIES**

- Center of Studies and Research on Work, Organization and Power (CERTOP) : http://w3.certop.univ-tlse2.fr/
- Rural Dynamics : http://www.univ-tlse2.fr/L8013/0/fiche_laboratoire/SRH=02Equipes
- Meridional France and Spain. History of the societies from medieval ages to contemporary times (FRAMESPA) : http://fram espa.univ-tlse2.fr/
- Environmental Geography (GEODE) : http://w3.geode.univ-tlse2.fr/
- Lab. for Research in Architecture (LRA) : http://www.toulouse.archi.fr/
- Interdisciplinary Lab. for Social Solidarities, Societies, Territories (LISST) : http://w3.lisst.univ-tlse2.fr/

**KEY FIGURES**

- 455 students (1/3 foreign students)
- 52 PhD awarded per year
- 400 researchers and academics
- 9 laboratories

**PhD students**

- 90 PhD students (70% international students)
- 120 researchers and academics
- 20 PhD awarded per year
- 3 research centres

**Website:** http://www.tse.fr/