



**The Doctoral School of Fundamental Sciences (ED SF)** encompasses the Université Clermont Auvergne research laboratories in Chemistry, Mathematics, Physics and Astrophysical Sciences. It draws on the resources of 450 permanent staff members with around 200 researchers and research professors available in a supervisory capacity. About 150 PhD students are enrolled in this doctoral school.

The diversity of the laboratories and of the research fields covered by the doctoral school offers doctoral students a multidisciplinary approach supplemented by modules specific to each research field. Exposure to the socio-economic world is ensured through socio-professional modules organized by the College of Doctoral Schools, which brings together the five doctoral schools on the Clermont-Ferrand site. Scientific communication to a diverse audience, in order to promote the PhD, is a key part of PhD students' training. Since quality research

needs international exchanges to thrive, the school has nurtured a proactive policy of international openness. International PhD students account for about 1/3 of each program year group and come from more than 20 countries from Europe, Africa, Asia and the Americas. This hosting policy is based on the development of dual-degree thesis program agreements and the search for appropriate funding (Ministry of Foreign Affairs, bilateral agreements, etc.).

### Some figures on the SF Doctoral School

140

PhD students

41% of whom  
are international



Employment rate for doctors 3  
years after degree

96%

*[class of 2014]*

30 to 40

Thesis defenses

20 to 30

Dual-degree thesis programs

### ED SF PhD SPECIALIZATIONS

- PhD in Mathematics
- PhD in Applied Mathematics and Applications of Mathematics
- PhD in Particles, Interactions and the Universe
- PhD in Dense and Material Mediums
- PhD in Diluted and Optical Mediums
- PhD in Physics-Chemistry of the the Atmosphere and Climate
- PhD in Theoretic, Physical and Analytical Chemistry
- PhD in Organic, Mineral and Industrial Chemistry

- PhD in Chemistry of Materials, Nanomaterials and Methods
- PhD in Science of Medicine and Other Health Products
- PhD in Physicochemical Science applied to Health Products
- PhD in Structure and Evolution of the Earth and of Other Planets
- PhD in Solid Earth: Geodynamics of Top Shells and Paleobiosphere



ÉCOLE DOCTORALE  
DES SCIENCES  
FONDAMENTALES

### LIST OF RESEARCH UNITS AFFILIATED WITH THE ED SF

- Molecular imaging and Theranostic Strategies (IMoS<sup>T</sup>)
- Clermont-Ferrand Institute of Chemistry (ICCF)
- Pascal Institute (IP)
- Blaise Pascal Laboratory of Mathematics (LMBP)
- Laboratory of Physical Meteorology (LaMP)
- Clermont Laboratory of Physics (LPC)
- Laboratory of Magmas and Volcanoes (L MV)
- Clermont-Ferrand Observatory of Earth Physics (OPGC)



### HOW TO APPLY

To apply for admission to a UCA Doctoral School, you must:

- Hold a Master's degree or any other degree awarding the title of Master.
- Have defined a thesis subject beforehand with the agreement of a thesis supervisor affiliated with one of UCA's research laboratories.
- Have obtained funding.

For more information, please visit the Doctoral School's website.



### CONTACT US

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