Computer Science

Degree conferred
Scientiarum doctor in informatica / Doctor of Philosophy in Computer Science (PhD)

Commencement of studies
An application for admission may be submitted at any time.

Regulation
https://studies.unifr.ch/go/1Q *(French and German only)*

Application procedure
Candidates with Swiss qualifications
https://studies.unifr.ch/go/Ui3b4
Candidates with foreign qualifications
https://studies.unifr.ch/go/2KPbe

Fribourg profile

Fascinated by **software**, **logic**, **computing infrastructures** or **artificial intelligence**? Take your career to the next level with a PhD in Computer Science!

Why study Computer Science?
Computer Science is today at the heart of our society. Computational techniques are transforming all aspects of our daily lives, from Smart Cities infrastructures to transportations, banking, the media or the manufacturing industry. Demand for highly qualified computer scientists is high, both in Switzerland and around the world. With a PhD in Computer Science, you will be able to face the tsunami of data that we are confronted to and help both our society and companies evolve towards a more efficient digital society.

Our PhD Programme in Computer Science
The University of Fribourg is proud to offer a PhD programme in Computer Science that will make you ready to tackle key scientific problems both for academia and the industry. Computer Science has a transformative impact on many facets of our society. Research topics that can be explored as part of a PhD in Computer Science at the University of Fribourg are quite diverse, and include:

- Applied Statistics and Modelling
- Decision Support and Operations Research
- Digitalisation and Information Systems
- Data Science and Big Data Infrastructures
- Formal Foundations of Dependable Systems
- Artificial Intelligence and Machine Learning
- AI-Oriented Software Engineering
- Human Computer Interaction
- Resilient Systems

Apart from detailed knowledge in the field, PhD students will also learn to conduct independent research projects, to guide bachelor and master students, to interpret and present scientific data, and to put their work into a general context. We also actively promote exchanges and interactions with other universities and with companies by organising workshops and research visits. We give all our PhD students the opportunity to present their work at international conferences and to meet people working on similar questions from close and far.

PhD students also have the opportunity to take graduate courses, by following free courses and workshops organised by the CUSO Doctoral Program in Computer Science in Western Switzerland. Funding for PhD projects is available in two main ways: 1) through project funds attributed to individual research groups. Interested candidates are encouraged to select a research group in which they would like to carry out their PhD (see Contact for a current list) and contact the group leader directly to ask for a possible opening; 2) through funds acquired by the PhD candidate (including *Swiss Government Excellence Scholarships*: https://studies.unifr.ch/go/en-swiss-gov-excell-scholarships).
Before applying for funds, candidates should contact the group leader they would like to work with.

Studies organisation

Structure of studies

No ECTS credits can be earned.

Doctoral school

https://informatique.cuso.ch

Admission

In order to be admitted to a doctorate the candidate must have been awarded an academic **bachelor's and master's degree** or an equivalent qualification from a university recognised by the University of Fribourg.

Before applying for a doctorate the candidate must contact **a professor** who would be willing to supervise the thesis work.

There is **no general right** to be admitted to a doctorate.

The respective conditions of admission for each doctoral study programme are reserved.

Contact

Faculty of Science and Medicine
Department of Informatics
Dr Andreas Humm
inf-scimed@unifr.ch
http://studies.unifr.ch/go/computerscience-research

Doc- Postdoc-portal

http://www.unifr.ch/phd