Medical Sciences

**Degree conferred**
Scientiarum doctor in scientiis medicinae / Doctor of Philosophy in Medical Sciences (PhD)

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

**Regulation**
http://studies.unifr.ch/go/NOzae (French and German only)

**Application procedure**
- Candidates with Swiss qualifications
  http://studies.unifr.ch/go/0bJpN
- Candidates with foreign qualifications
  http://studies.unifr.ch/go/4a2qV

**Fribourg profile**
The department of Medicine offers doctoral programmes in various domains of the biomedical research. Students are affiliated to one of the research groups of our Department and in addition may attend an organized programme of lectures, seminars and other activities. See for example: BeNeFRI Program Neuroscience and ProDoc project Cell migration supported by Swissuniversities.

The research groups of the department of Medicine are organised in 3 research clusters:

- Neurosciences
- Cardiovascular, metabolism & endocrinology
- Cancer, immunology & microbiology

All details concerning the present research activities of each group, the available PhD positions and the contact addresses can be found in the websites of each group (see Contact) and in the Scientific Report of the Department of Medicine, which is published every two years (actual: 2013/2014).

**Research groups list**

**Cluster Neurosciences**
- Laboratory for cognitive and neurological sciences
  Prof. J.-M. Annoni, Dr. L. Spierer
- Perception and control of movement
  Prof. J.-P. Bresciani
- Brain circuits for positive emotions
  Prof. M. Cello
- Neurophysiology of cognitive and emotional functions as well as decision-taking in normal subjects and psychiatric patients
  Prof. M. Merlo
- Visual cognition laboratory
  Prof. G. Rainer
- Laboratory of neurophysiology of action and hearing
  Prof. E.M. Rouiller
- Calcium signalling in health and disease
  Prof. B. Schwaller
- Motor control and motor learning
  Prof. W. Taube

**Cluster Cardiovascular, Metabolism and Endocrinology**
- Translational and clinical cardiology
  Profs. S. Cook and M. Togni, Dr. M.-N. Giraud
- Nutritional energetics and body composition regulation
  Prof. A. Dulloo
- Molecular oxygen physiology
  Prof. D. Hoogewijs
- Molecular endocrinology
  Prof. A. Lauber-Biason
- Cardiovascular and metabolic physiology
  Prof. J.-P. Montani
- The importance of renal proximal tubular function
  Prof. F. Theilig
- Cardiovascular and aging research
  Prof. Z. Yang

**Cluster Cancer, Immunology and Microbiology**
- Cell biology, immunology and clinical anatomy
  Prof. L. Filgueira
- Molecular mechanisms of hypoxia signalling
  Prof. D. Hoogewijs
- Molecular and medical microbiology: emerging antibiotic resistance unit
  Prof. P. Nordmann
- Experimental and translational oncology
  Prof. C. Rüegg

**Studies organisation**

**Structure of studies**
ECTS credits can be earned.

**Doctoral school**
http://studies.unifr.ch/go/phd-benefri-neuroscience
http://studies.unifr.ch/go/phd-cell-migration

**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 by 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 Medicine
http://www.unifr.ch/med/fr/research

Doc- Postdoc-portal
http://www.unifr.ch/phd