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UNIVERSITÉ DE FRIBOURG
UNIVERSITÄT FREIBURG

PROFESSOR POSITION IN MATHEMATICS (95-100%)

The Faculty of Science and Medicine of the University of Fribourg, Switzerland, announces the opening of a position of **Professor of Mathematics (open rank)**.

GENERAL CONDITIONS

The Faculty of Science and Medicine invites applications for a tenured position of Professor of Mathematics in the Department of Mathematics. The selected candidate must have an outstanding record of successful independent research in a field of mathematics with strong potential for applications, such as (but not limited to): PDE, dynamics, optimization, discrete mathematics and algorithms, mathematical aspects of machine learning, mathematical data analysis, mathematical statistics, inverse problems, applied algebra.

The candidate is expected to develop an internationally recognized research program, supported by a significant amount of external funding. Collaboration with other groups of the department and the faculty is encouraged. The integration of the candidate within the department is an important selection criterion.

The future appointee will participate actively in teaching to undergraduate and graduate students from the Department of Mathematics as well as from other departments of the Faculty of Science and Medicine. The nominal teaching load is of 6 weekly hours (each hour corresponds to 45min of actual teaching and 15min break), four of which are dedicated to mandatory undergraduate courses. The future appointee is expected to participate in the teaching of the first two years of either the Analysis or Algebra-Geometry-Topology modules.

The candidate should be able to teach in English as well as, at the Bachelor level, in one or both of the official languages of the University, French or German (after an appropriate adaptation period if necessary).

The University of Fribourg provides equal opportunities for women and men and aims at achieving gender balance. Applications from women are especially welcome.

The University of Fribourg is a signatory to the DORA declaration and attaches great importance to a qualitative assessment of academic performance.

APPLICATION PROCEDURE

Please apply exclusively via the official Faculty of Science and Medicine - University of Fribourg recruiting tool, by clicking on the following link: https://scimed-recruiting.unifr.ch

Application deadline: 31 October 2023.

The following documents should be uploaded via the following weblink above:

1. a covering letter mentioning the position for which the candidate is applying (Professor of Mathematics) addressed to the Dean, Prof. Ulrich Ultes-Nitsche, President of the selection committee.

2. a complete curriculum vitae, including a copy of the diploma of the highest degree

3. a complete list of publications (highlighting specifically the 5 most important contributions)

4. An electronic version of the 5 most relevant publications ("name-papers.pdf")

5. a detailed record of teaching experience

6. a record of past and present funding

7. a 5-6-page description of the research that the candidate intends to conduct in Fribourg

8. the names and addresses (postal and e-mail) of three persons who could be contacted as referees.

ACADEMIC ENVIRONMENT

Faculty, Sections and Departments

The Faculty of Science and Medicine is organized in two sections: a Science Section and a Medicine Section. The Science Section is composed of six departments and six institutes; the Medicine Section is composed of five departments and two institutes (see https://www.unifr.ch/scimed/en/units/).

The Faculty is presided by the dean who is elected by the faculty council and serves for a 3-year period. Each section is led by a president who is elected by the other professors and serves for a 2-year period. Major decisions are taken by the Faculty Council and/or Section Councils, which include professors, teaching staff and student representatives.

The future appointee will join the Department of Mathematics, which is one of six departments in the Science Section. The six departments of the Science section are:

- Mathematics
- Biology
- Chemistry
- Geoscience
- Informatics
- Physics

Presently, the Department of Mathematics employs six permanent professors that are heading independent research groups. The department is presided by the department president, a role occupied by each of the professors of the department on a rotational basis. Major decisions are taken by the department council, which include the six professors, a member of the teaching staff and a student representative.

Research focus

The Department of Mathematics conducts research in various areas of pure and applied mathematics and currently hosts research groups in:

- Geometric Analysis
- Topology
- Metric and Differential Geometry
- Probability and Statistical Mechanics
- Applied Probability, Statistics and Mathematical Biology.

See https://www3.unifr.ch/math/en/research/areas/ for details.

The future appointee will build an independent research group in his/her area of expertise and is expected to actively seek external funding to support his/her research and research group.

Teaching and Languages

Besides the Bachelor, Master and PhD programs in Mathematics, which conform to the Bologna principles, the Department of Mathematics offers service teaching to other curricula in natural sciences. Students at the Bachelor and Master level in Mathematics benefit from the BENEFRI program between the Universities of Bern, Fribourg and Neuchâtel. PhD students are included in the Swiss Doctoral Program in Mathematics of the CUSO.

The University of Fribourg is bilingual (German and French) and teaching at the Bachelor level is almost exclusively in French and/or German. Students can choose to take their exams in either language. At the Master and PhD levels, classes can be taught in English as well.

The official teaching load of a professor at the University of Fribourg is 6 hours per week (6h x 14 weeks x 2 semesters; a teaching hour consists of 45 minutes lecture time and 15 minutes break). The members of the Department of Mathematics teach service courses, mathematics courses at the Bachelor level as well as advanced courses at the Master level. The future appointee is expected to dedicate 4h/week to the first- and

second-year modules of either Analysis or Algebra-Geometry-Topology. The remaining 2h/week may be dedicated to advanced or specialized courses.

Candidates must be able to teach in French or German and in English and have colloquial skills in all three languages. A period of adaptation may be negotiated.

INFRASTRUCTURE AND FUNDING

Department and location

The Department of Mathematics is located in two dedicated buildings on the Pérolles campus of the University of Fribourg and is within short walking distance to the other buildings of the Faculty of Science and Medicine. The Pérolles campus also hosts the School of Engineering and Architecture and the Adolphe Merkle Institute, which focuses on research in the domain of soft nanomaterials. The future appointee will have access to the infrastructure of the Department of Mathematics and of the Faculty of Science and Medicine.

Computers

The University's computer service supplies all Departmental members with state-of-the-art PCs or Macs and the necessary software. Specific research software may also be provided for research purposes.

Financial support

The successful candidate has access to the department's pool of six state-funded PhD positions as well as to the department's secretary. The appointee is expected to actively seek external funding to support his/her research and research group.

The salary is established according to the salary grid of the Canton of Fribourg. Details will be negotiated when the position is offered.

For more information about working at the University of Fribourg please consult www.unifr.ch/attractive-employer/working-at-the-uni.

CONTACT

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