

PROFESSOR POSITION IN SOLID STATE SPECTROSCOPY

The Faculty of Science and Medicine of the University of Fribourg, Switzerland, announces the opening of a position of Professor in **Solid State Spectroscopy**.

GENERAL CONDITIONS

The Faculty of Science invites applications for a tenured position of a Professor in “Solid State Spectroscopy” in the Department of Physics. The selected candidate must have an outstanding record of successful independent research in the field of **spectroscopy of solid state materials**. Potential research synergies with the Paul Scherer Institute (PSI) and its various large-scale research facilities would be advantageous. The candidate is expected to develop a vigorous, internationally recognized research program that is supported by a significant amount of external funding and to lead the research activities of a group of graduate students/postgraduate researchers. Collaboration with other groups of the department and the faculty is encouraged.

The future appointee is expected to participate actively in teaching at all levels of experimental physics to undergraduate and graduate students in physics and other departments of the Faculty of Science. The candidate should be able to teach in English as well as, at the Bachelor level, in one or both of the two official languages of the University, French or German (after an appropriate learning period, if necessary).

The University of Fribourg encourages the appointment of women.

APPLICATION PROCEDURES

Hard copies of the following documents should be forwarded to the mailing address below:

1. a cover letter mentioning the position for which the candidate is applying (Professor of Solid State Spectroscopy)
2. a complete curriculum vitae, including a certified copy of the diploma of the highest degree
3. a complete list of publications (highlighting specifically the 5 most important contributions)
4. a detailed record of teaching experience
5. a record of past and present funding
6. a 1-2-page description of the research that the candidate intends to conduct in Fribourg
7. the names and addresses (postal and e-mail) of three persons who could be contacted as referees

Deadline: the applications have to reach the Dean's office before 30 September 2019.

Prof. Gregor Rainer
Dean of the Faculty of Sciences and Medicine
University of Fribourg
Chemin du Musée 8
CH-1700 FRIBOURG
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Please also send an **electronic version of the application** ("**name.pdf**") and PDF versions of the 5 most relevant publications ("**name-papers.pdf**") to the Faculty Administrator at the Dean's Office (franziska.heyne@unifr.ch).

ACADEMIC ENVIRONMENT

Faculty, Sections and Departments

The Science Section belongs to a joint Faculty of Science and Medicine of the University of Fribourg, which facilitates cooperation between medicine and basic science disciplines such as physics, chemistry or biology and offers many possibilities for collaboration and shared use of infrastructure. The candidate will join the Department of Physics.

The six Departments of the Science section are:

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

The 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 teaching staff and student representatives.

Research focus

The research in the Department of Physics currently encompasses a broad spectrum of topics, including soft matter (both experiment and theory), photonics and nanosystems, atomic physics, solid state (magnetism and superconductivity, electron spectroscopy), computational physics and theoretical interdisciplinary physics (see <https://www3.unifr.ch/phys/en/research/>).

Teaching and Languages

Besides the Bachelor, the Master and PhD programmes in Physics which conform to the Bologna principles, the Department of Physics offers service teaching to other curricula in natural sciences.

The University of Fribourg is bilingual and teaching at the Bachelor level is exclusively in French or/and German. Students can choose to take their exams in either language. At the Master and PhD levels, the classes are generally taught in English. Candidates must therefore be able to teach in French or German and in English and to have colloquial skills in all three languages (or be willing to acquire such skills within a few years).

The official teaching load of a professor at the University of Fribourg is 6 hours per week (6h x 14 weeks x 2 semester = 168h).

Administrative structure

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 three institutes (see <https://www3.unifr.ch/scimed/fr/sci>); the Medicine Section is composed of five departments and one institute (see <https://www3.unifr.ch/scimed/fr/med>).

Presently the Department of Physics employs 7 professors that are heading independent research groups (4 in experimental physics and 3 in theoretical physics). In addition, two junior professors in experimental condensed matter physics, funded by the Swiss National Science Foundation (SNSF), have been active in the Department since Spring 2018. Major decisions are taken by the Department Council that comprises the teaching staff and representatives of the technical/administrative staff and students.

INFRASTRUCTURE, POSITIONS AND FUNDING

Infrastructure

Department and location

The Department of Physics is centrally located in a dedicated building on the Pérolles campus, within short walking distance to the other buildings of the Faculty of Science. This campus also hosts the School of Engineering and Architecture and the Adolphe Merkle Institute that focuses on research and education in the domain of soft nanomaterials. The appointee will have access to the infrastructure of the department (secretariat and technical pool) and of the Faculty of Science (library, computer cluster, shop for scientific materials and chemicals etc.).

Computers

The University's computer service supplies all Departmental members (academic and technical staff) with state-of-the-art PCs or Macs and appropriate office, reference, statistical and graphics software. Specific research software can also be supported for research purposes. The Physics department also has access to a high performance cluster to deal with larger computational tasks.

Financial support

The new professor will receive a share of the department's operating budget, which will be calculated according to standard procedures in use in the Faculty of Science and in the Department of Physics. The appointee is, however, expected to actively seek additional external funding to cover the bulk of the research expenses. The new professor will receive a start-up grant for equipment and will have access to the department's pool of technical/administrative staff.

CONTACT

Contact for further information:

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