

## PROFESSOR POSITION IN MINERALOGY (OPEN-RANK)

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

### GENERAL CONDITIONS

The Faculty of Science and Medicine invites applications for a tenured position of a Professor in “Mineralogy” in the Department of Geosciences. The selected candidate must have an outstanding record of successful independent research in the field of **mineralogy** with possible specializations in **environmental mineralogy** and/or **biomineralogy** and/or **mineral resources**. Collaboration with other groups of the Department and the Faculty is highly encouraged. Potential research synergies with the Adolphe Merkle Institute (AMI), 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. The future professorship should actively maintain and supervise associated geoplatforms. Knowledge of the use and management of XRD, XRF or electron microscopic facilities is advantageous.

The future appointee is expected to participate actively in the teaching of mineralogy and petrology at all levels to undergraduate and graduate students in geosciences and other departments of the Faculty of Science and Medicine. The candidate should be able to teach bachelor courses in one of the two official languages of the University, French or German (after an appropriate learning period, if necessary) and masters courses in English.

**The University of Fribourg is an equal opportunity employer and strives towards gender balance and diversity at all levels.**

We seek candidates per August 1<sup>st</sup> 2022 or by mutual agreement.

### 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 Mineralogy)
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 15 MAY 2021.**

**Prof. Gregor Rainer**  
**Dean of the Faculty of Sciences and Medicine**  
**University of Fribourg**  
**Rue de Rome 3**  
**CH-1700 FRIBOURG**  
**Switzerland**

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.schumacher@unifr.ch](mailto:franziska.schumacher@unifr.ch); CC: [dean-scimed@unifr.ch](mailto:dean-scimed@unifr.ch)) and specify as subject of the email "PROFESSOR POSITION IN MINERALOGY").

## ACADEMIC ENVIRONMENT

### Faculty, Sections and Departments

The Faculty of Science and Medicine is organized in two sections: The Science Section and the Medicine Section. The Science Section is composed of six departments (Biology, Chemistry, Geosciences, Informatics, Mathematics, Physics) 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>).

The Science Section is led by a president who is elected by the other professors and serves for a two-year period. Major decisions at the faculty level are taken by the Faculty Council and/or Section Councils, which include teaching staff and student representatives.

The future appointee will join the Department of Geosciences.

### Administrative structure of the Department

The Department of Geosciences is currently organized into two informal units, **Geography** and **Earth Sciences**, which represent the two major teaching domains. Research is organized within 11 major research groups and 2 associated research groups. A formal agreement exists with the 'Swiss Auxiliary Scientific Service in Geosciences' (SSAG) JURASSICA in Porrentruy, Canton Jura, in teaching and research, mostly paleontology and sedimentology. An inter-faculty organization is furthermore associated with the Department, the 'Environmental Sciences and Humanities Institute' (UniFR\_ESH-Institute). The Department is headed by one President and Vice-President, who are elected from the professors and serve a two-year term. Administration and research are supported by secretarial and technical staff. A broad pool of research equipment is organized into 6 centralized and shared research platforms. Major decisions are taken by the Department Council that comprises the teaching staff and representatives of the technical/administrative staff and students.

### Research focus

The research in the Department of Geosciences currently encompasses a broad spectrum of topics, including archeometry, applied mineralogy, sedimentology and paleoenvironment, paleontology and paleoecology, tectonics and structural geology, micropaleontology, environmental history, environmental & climate justice, geomorphology, cryosphere & geophysics, atmosphere-cryosphere dynamics, political ecology, and ice sheets & remote sensing (see <https://www3.unifr.ch/geo/en/research/>).

### Teaching and Languages

The Department of Geosciences currently offers two bachelor programs (BSc in Geography and BSc in Earth Sciences), three masters programs (BeFri MSc in Earth Sciences; MSc in Environmental Sciences and Humanities; and MSc in Geography) (<https://www3.unifr.ch/scimed/en/plans>), and four doctoral titles (Ph.D. in Earth Sciences; Ph.D. in Environmental Humanities; Ph.D. in Geography; and Ph.D. in Geosciences) (<https://www3.unifr.ch/scimed/en/studies/phd>). The department furthermore provides minors to other degree programs and contributes to the Teacher Education for Secondary Level I. All teaching conforms with Bologna principles.

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, classes are 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 semesters = 168h).

## INFRASTRUCTURE, POSITIONS AND FUNDING

### Infrastructure

#### *Department and location*

The Department of Geosciences is centrally located in two dedicated buildings on the Pérolles campus, within short walking distance to the canteen, a cafeteria, sports facilities, and the other buildings of the Faculty of Science. This campus also hosts the School of Engineering and Architecture and the Adolphe Merkle Institute (<https://www.ami.swiss/en/>), which focuses on research and education in the domain of soft nanomaterials. The appointee will have access to the shared infrastructure of the department (secretariat, technicians, and lab infrastructure organized in 6 geoplatforms) and of the Faculty of Science and Medicine (library, IT, and central laboratory supply store).

#### *Labs – geoplatforms*

The **Earth Science Unit** manages state-of-the-art laboratories, which are organized in four platforms (3D Visualization and Microscopy Platform, Elemental and Mineralogical Analytical Platform, Rock Lab Platform, and Experimental and Geochemical Platform) including CT-scanning, SEM, XRD, XRF, IC, geobioreactors, and a broad set of microscopic techniques. The **Geography Unit** hosts two platforms (Geophysical platform and Kinematic and Drone platform), including geoelectrics, seismics, electromagnetics, georadar, a dGPS suite, a drone pool, and a terrestrial laser scanner. The appointee will have access to all shared geoplatforms and contribute actively to the management, renewal and update of the elemental and mineralogical analytical platform.

#### *IT*

The University's computer services supply all Departmental members (academic and technical staff) with state-of-the-art computers and appropriate office, reference, statistical and graphics software. Specific research software can also be acquired for research purposes. The Department of Geosciences host high-performant workstations and has access to a computer cluster to deal with larger computational tasks. Specific research hardware and software, as well as storage and back-up facilities can be discussed in collaboration with the centralized IT for Research facility and the Department of Geosciences.

### Financial support

The new professor will receive a share of the department's operating budget. The appointee is, however, expected to actively seek additional external funding to cover the bulk of research expenses. The new professor will receive a fixed start-up grant for equipment. The new professor will have one 80 % AI position and supervise 1 MA position in petrology.

## CONTACT

### Contact for further information:

Prof. Dr. Anneleen Foubert – [anneleen.foubert@unifr.ch](mailto:anneleen.foubert@unifr.ch)

Prof. Dr. Walter Joyce – [walter.joyce@unifr.ch](mailto:walter.joyce@unifr.ch)

Department of Geosciences

University of Fribourg