

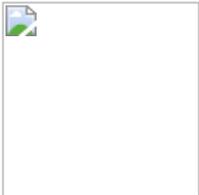


The University of Oslo is Norway's oldest and highest rated institution of research and education with 28 000 students and 7000 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

Centre for the Earth Evolution and Dynamics (CEED) is a Norwegian Centre of Excellence that provides a stimulating and well-funded research environment. The main goal of the centre is to develop a model that explains how mantle processes drive plate tectonics and trigger massive volcanism and associated environmental and climate changes throughout Earth's history.

The centre explores the distribution and history of tectonic plates in time and space, and examines the driving mechanisms that steer all stages of the 'Wilson Cycle', and aims to establish the links between Earth's interior, crust and oceans, atmosphere and biosphere. CEED endeavors to also unravel similarities and differences of our planet with earth-like planetary bodies.

The centre was established in 2013 and consists of ca. 70 full time and part time professors and researchers, PhD Research Fellows and Postdoctoral Research Fellows.



## Postdoctoral Research Fellowship in Geochemistry

A position as Postdoctoral Research Fellow is available at the Centre for Earth Evolution and Dynamics, Department of Geosciences, University of Oslo, Norway. The fellowship is for a period of two years. Starting date is as soon as possible, but preferred no later than March 2018.

### Project and job description:

A new and exciting era of planetary space exploration started in 2000 with a plethora of in-situ and orbital missions in operation at terrestrial planets and small Solar System bodies. The characterization of the surface of these planetary objects is one of the major goals of space exploration. In order to support these operations, reduction and analyses of the space mission data, the H2020 project "Planetary Terrestrial Analogues Library" ([PTAL](#)) aims to build and exploit a multi-instrument spectral data base and joint spectral interpretation tools.

A two-year post-doctoral research position is sought for the PTAL project, aimed at determining mineral alteration pathways for natural and artificial analogue materials under well-defined and controlled experimental conditions. The impact of varying experimental conditions will be tested to better constrain the geochemical aspect of environmental conditions on Mars, one of the prime targets of this project, and potentially validated for small planetary bodies. During previous field campaigns materials that are analogous to the Martian surface have been collected. We are also aiming at acquiring complementing analogues for small planetary bodies (asteroids, comets).

All natural rock and artificial samples and alteration products will be characterized for the spectral library with commercial and dedicated spacecraft instrumentation (XRD, NIR, RAMAN, LIBS) under laboratory conditions. The main focus of the post-doctoral research work will be to perform laboratory alteration experiments and to carefully analyse the altered samples with various techniques (i.e., X-ray Diffraction, RAMAN, NIR, LIBS) in collaboration with other members of the PTAL project. The candidate contributes with building the spectral library based on the obtained experimental data, and studies planetary (Mars, small bodies) mineral alteration processes and conditions.

### Qualifications:

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

The candidate must have a PhD or other corresponding education equivalent to a Norwegian doctoral degree in geochemistry, mineralogy or related disciplines. We seek a candidate with a good understanding of the geological/geochemical evolution of Mars, while knowledge on small body composition or meteorites is an asset. The candidate should have experience in hydrothermal laboratory experiments and analytical methods (XRD in particular). Additional experience with either methods of spectroscopy (RAMAN, NIR, LIBS), characterization of clay minerals or geochemical and kinetic modelling is welcomed.

A good command of written and spoken English is required.

### We offer:

- Postdoctoral Research Fellowship (position code 1352) NOK 490 900 - 569 000 per year, depending on qualifications and seniority.
- A professionally stimulating working environment.

Attractive [welfare benefits](#) and a generous [pension agreement](#), in addition to Oslo's family-friendly environment with its rich opportunities for culture and outdoor activities

**The application must include:**

- Application letter including a statement of research interest, briefly summarizing your scientific work and interests, and a personal assessment focusing on how you fit the description of the person we seek
- CV (summarizing education, positions and academic work, and other qualifying activity)
- Copies of educational certificates and transcript of records
- A complete list of publications and up to 5 academic works that the applicant wishes to be considered by the evaluation committee
- Names and contact details of 2-3 referees (name, relation to candidate, e-mail and telephone number)
- Brief project description of how the applicant envisions to carry out research within the described tasks of the PTAL project

Note that all documents should be in English (or a Scandinavian language).

The University of Oslo aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds. Please see the [guidelines](#) and [regulations](#) for appointments to Postdoctoral fellowships at the University of Oslo.

According to the Norwegian Freedom and Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

The University of Oslo has an [agreement for all employees](#), aiming to secure rights to research results a.o.

**For further information please contact:**

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For questions about the recruitment system, please contact HR Officer Helene Jansen, +47 22857196, [h.b.jansen@mn.uio.no](mailto:h.b.jansen@mn.uio.no)

Jobbnorge-ID: 143472, Søknadsfrist: Avsluttet