

An advertisement published on 1.6.2022,  
deadline for submitting is 30.6.2022

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Dean of the Faculty of Science, Charles University  
invites applications for:

## International Postdoctoral Fellowship – Earth and Environmental Sciences

**Topic:** In many geotechnical problems either saturated or unsaturated soils are subjected to a cyclic coupled thermo-hydro-mechanical (THM) loading. A prominent example are energy piles, increasingly in demand in the context of renewable energy development. Despite its practical relevance, the complex behaviour of medium plasticity clays under coupled THM loading has not been sufficiently investigated and is thus not fully understood yet. The available constitutive models are mainly restricted to monotonic THM processes. Therefore, a thorough experimental investigation of a medium-plastic clay under coupled THM loading is planned and constitutive models will be developed based on the performed experiments. Enhanced models will be adopted in numerical simulations of energy piles.

The Faculty of Science, Charles University (Prague, Czechia) invites applications for a Post-doctoral position in the Geology Section for the project “International mobility of research, technical and administrative staff at the Charles University” reg. n. CZ.02.2.69/0.0/0.0/18\_053/0016976.

### Eligibility criteria:

- Ph.D. or other appropriate level 8 ISCED (International Standard Classification of Education) qualification completed within the last seven years.
- The applicant must have worked outside the Czech Republic at least for 2 years of the last 3 years in the field of research with the workload at least 0.5 or have been a PhD student abroad.
- The applicant must have had at least 2 published, peer-reviewed research outputs in the last 3 years. Outputs must be registered in the Thomson Reuters Web of Science, Scopus or ERIH PLUS database as well as “article”, “book”, “book chapter”, “letter” and “review”.
- All research activities will be conducted in English; knowledge of the Czech language is not required.

### Selection process:

Selection will be based on the relevance of candidates’ professional interests and experience, excellence in research achievements.

### Position duration, starting date and remuneration:

The position duration is 6 months, starting on November 1, 2022 and ending on April 30, 2023. The gross monthly salary is 62 237 CZK (approx. 2 527 EUR) including health insurance and social insurance coverage. The job status is full-time - 40 hours per week.

### Application for selection procedure:

Application, which you can download here <https://www.natur.cuni.cz/fakulta/uredni-deska/vyberova-rizeni/application-for-selection-procedure/view>, with cover letter, curriculum vitae, list of publications, diplomas, research and teaching statement, contacts to those who could provide a letter of recommendation must be send within 30 days from the announcement of the tender to the e-mail address: [volnamista@natur.cuni.cz](mailto:volnamista@natur.cuni.cz) with subject “**Výběrové řízení.**”

### Application deadline:

The application deadline is June 30, 2022. Subsequently, the applications’ review will begin immediately. Successful candidates will be informed by July 31, 2022.