



VŠB-Technical University of Ostrava is searching for suitable candidates for Junior Researcher position for work stay abroad.

VŠB-Technical University of Ostrava is an institution of higher education offering education in technical and economic sciences based on free and internationally oriented research. It is an integral part of the higher education structure in the Czech Republic providing for the highest level of education in the area of its specialization. VŠB-TUO has the right of conferring academic and scientific degrees, as well as doctoral honorary degrees. The scientific and teaching staff collaborates with research and academic institutions and specialists at both national and international levels.

VŠB-TUO ranks among the top technical universities in the Czech Republic. Its research & technology development potential represents an important component of the innovative process in the region and throughout the entire Czech Republic. The latest results of its R&D activities confirm the strength of the human and research potential that the University has at its disposal.

Dean of the Faculty of Mining and Geology (VŠB-Technical University of Ostrava) announces the beginning of selection procedure for position Junior Researcher for work stay abroad on the below described topic, supported by the EU Operational Program Research, Development and Education and the Czech state budget.

Job position: Participation in the mobility Nr.3 - Work-stays of Junior Researchers Abroad

Location: IRIS AS - International Research Institute of Stavanger/Norway

Expected date of the mobility: 10/2018 to 4/2019

Workload: 100 %

Field of research: Study of the rock behaviour under long-term cyclic loading conditions as a result of increased operational capacity of underground gas storage (UGS) facility.

Detailed description of the research: Extending capacity of underground gas storage structures of former oil and gas reservoirs is the general field of this proposed research. The UGS rock formation plays a role of the strategic element in energy supply chain. Its long-term utilization means periodical loading and unloading which might influence its operational abilities. This research aims to focus on the reservoir rocks as the most elementary component and their integrity as the most fundamental part of the UGS operation safety. The closest related fields are oil and natural gas recovery. The UGS facilities are important part of energy supply in the Czech Republic. Increasing operational capacities of UGS is in the

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Interest of not just their operators. The UGS rock formation is experiencing periodical loading and unloading which has higher amplitude as the UGS is being filled up more. Therefore, the rock mechanics and rock fatigue are being crucial areas to work with in assessment of UGS operational integrity. Thus, the main focus of this research is being the study of rock samples and their geomechanical parameters as manifestation of its sedimentological, petrological and lithological properties. Such a link between genetic and geotechnical properties would eventually allow numerical and stochastic analysis to evaluate the risks involved in long term operation at elevated loading conditions.

Basic information about the researcher's work (plan of research and development activities, job description and expected outputs):

Length of the mobility: Requirements for the candidate:

- 6 months
- The candidate must be a Junior Researcher¹, if it is a Ph.D. student, he/she must have the status of a Ph.D. student (in an institution based in the Czech Republic)
- During the mobility implementation, the candidate must be an employee of the Beneficiary, working for at least 0.5 of the working time
- The candidate must have a recommendation of the tutor (if it is a Ph.D. student)
- Good knowledge of English language

Conditions of the mobility:

- The researcher must work for 6 months as an employee of VŠB-TU Ostrava without undue delay after returning from mobility.
- The researcher must participate in a conference / seminar / workshop etc., at least once every 6 months of the mobility duration.
- Any potential research output conceived during mobility performance must be published in an Open Access form.
- The researcher will have a mentor in host institution who should tend to the researcher 4 hours a week in average.

¹ Junior Researcher

A Junior Researcher is a researcher, being a Ph.D. student or meeting the post-doc definition. The said period may be extended for the maternity and paternity leave period, long-term sickness (more than 90 days), care for a family member (more than 90 days), pre-attestation preparation and military training.

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Selection criteria:

- The number and quality of publication outputs
- The way and scope of involvement in the research projects
- Language skills of the candidate for the mobility
- Contribution of candidate's mobility to the institution of the applicant (VSB)
- Expected results of the mobility and their future use for the institution of the applicant (VSB)
- Potential of the mobility to increase the quality of research at the institution of the applicant (VSB)

Documents required from the candidate:

- Professional CV
- Copy of diploma (or recognition, in the event of a Ph.D. student, confirmation of studies.)
- Referral of the tutor in the event of a Ph.D. student
- A certificate or another document proving level of knowledge of English language
- List of scientific or professional publication and other documents certifying scientific qualification
- Research plan with respect to the required field of research

Salary conditions:

- The salary conditions are set in accordance with the rules of the Operational Programme Research, Development and Education
- Gross wage approx. 70 000 – 80 000 CZK/monthly/100 % workload
- Including all mandatory expenses (social and health insurance, social fund)
- Social and health insurance, travel expenses to and from destination will be covered

Contact person:

Ing. Petra Florčínská, petra.florcinska@vsb.cz

The process of mobility is subject to the Rules for Applicants and Beneficiaries, Specific Section, Call "International Mobility of Researchers" (Operational Programme Research, Development and Education No. 02_16_027). The researcher is required to submit Monthly report of activities for each performed activity unit and to fulfil the Attendance (during the mobility), and also after the end of the return phase he is required to draw up the Report in Return Phase.

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*The researchers must participate in a conference / seminar / workshop etc., at least once every 6 months of the mobility duration. It may be an event organized by other than host institution or if the event is organized by the host institution, it must be an international event.
The researchers must have a mentor in the host institution who should tend to the researcher 4 hours a week on average.*

Interested candidates are requested to send the above-mentioned documents in the Czech or English language to petra.florcinska@vsb.cz and lgar.ivan@vsb.cz by no later than 23/7/2018.

In Ostrava 3/7/2018.

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