UNIVERSITÉ DE GENÈVE
FACULTY OF SCIENCE
Department of Earth Sciences

Geneva, 11.07.2024

Postdoctoral position in passive seismic imaging methods for geothermal exploration

Summary of position and project:

The Department of Earth Sciences at the University of Geneva is welcoming applications for a seismology/geophysics postdoctoral researcher for an appointment of **2 years** to develop **passive seismic imaging methods applied to geothermal exploration**. The research will be part of the **Horizon Europe project GeoHEAT** (EU call HORIZON-CL5-2023-D3-02), which aims to develop an innovative integrated multi-scale low-cost exploration workflow, from the regional to borehole scales. The postdoc will be hosted at the University of Geneva in a group of applied geophysicists working on various projects leveraging passive seismic and geoelectrical methods for subsurface characterization in volcanic and geothermal settings (Group of Crustal Deformation and Fluid Flow). The successful candidate will also work closely with Dr. Claudia Finger of Fraunhofer IEG and Dr. Katrin Löer of TU Delft and be part of the broader GeoHEAT consortium, composed of 11 EU and Swiss academic and industry institutions. In particular, the successful candidate will involved in GeoHEAT's Work Package 2 that aims to develop an innovative reservoir-scale exploration workflow, combining low-cost passive geophysics (ambient noise tomography and microgravity) along with outcrop mapping observations to identify optimal drilling sites inside a probabilistic modeling framework. The salary and benefits will be in accordance with the regulations at the University of Geneva.

Qualifications:

- The candidate must hold a Ph.D degree in Geophysics, Earth Sciences or Physics at the start time of the position.
- A strong base knowledge of seismology and seismic tomography/inversion methods is strongly desired, along with solid programming skills in Python, Matlab or other languages and familiarity with Linux/Unix.
- Previous experiences with seismic methods leveraging ambient noise and dense geophone array datasets and working with HPC clusters are an asset.
- Some fieldwork in Europe is also expected for this position, so a valid driving license is required.

Application Deadline:

The closing date for applications is August 15, 2024, or until filled, with a preferred start date in late Fall 2024 or early 2025.

How to apply:

Your application must include (1) a cover letter indicating your research experience and suitability for this position, (2) a curriculum vitae including a publication list, and (3) the names and e-mail addresses of at least 2 potential references.

Please send all your application documents directly to Dr. Geneviève Savard, Department of Earth Sciences, University of Geneva at the following email address: genevieve.savard@unige.ch

The University of Geneva is an equal opportunity employer and particularly encourages women and other under-represented groups in geoscience to apply.

For more information on the position, please email genevieve.savard@unige.ch.