Job Information

**Organisation:** Université Grenoble Alpes, France.
**Institute:** Institute of Earths Sciences, ISTerre, Grenoble.
**Research Field:** Environmental science: Earth science; Geosciences
**Researcher Profile:** Recognised Researcher (R2)
**Country:** France
**Application Deadline:** 28/02/2023
**Type of Contract:** Temporary (CDD)
**Job Status:** Full-time
**Hours Per Week:** 35
**Offer Starting Date:** 01/03/2023
**Funding:** MIAI / H2020 ERC, F-IMAGE Grant agreement No 742335

Requirements

**Education Level:** PhD or equivalent. PhD in geophysics or signal processing.
**Skills/Qualifications:** The work requires expertise in seismology, signal processing, data mining and Python programming skills.
**Years of Research Experience:** 1-4

Offer Description

We are seeking a candidate for a project of data exploration in seismology. Large amounts of seismological data are available and the various tools developed with the rise of machine learning open new possibilities to track down signatures of physical processes at work in the depths of the Earth.

The classical data product in seismology is the event catalog. Considerable progress has recently been made in detection, both by implementing weak event detection through network response (Beaucé et al., 2022) and by developing statistical detectors robust to noise (El Bouch et al., 2022). In addition, an advanced data representation (ScatNet: Seydoux et al., 2020) gives access to new continuous characteristics of the signals that can be related to changes in the environment (e.g. Steinmann, 2022). These approaches will be applied to seismic and geodetic data sets.

The work is part of the activities of MIAI (Multidisciplinary Institute in Artificial Intelligence of Université Grenoble Alpes) and of ERC AdG F-IMAGE. The funding is for an initial one-year contract, renewable for a second year.


Selection process: To apply, please send your CV, a cover letter, a sample of recent publications and two references to: michel.campillo@univ-grenoble-alpes.fr (cc: marian.ramirez-nino@univ-grenoble-alpes.fr)

Applications will be accepted until the position will be filled.

Websites for additional information:
https://f-image.osug.fr
https://www.isterre.fr