Postdoctoral in geophysics

Job offer from the institut de physique du globe de Paris | CNRS UMR 7154

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| **Researcher in** | Geophysics |
| **Duration** | 22 months |
| **Affectation** | IPGP/OVPF |
| **Salary** | Depending on experience |
| **Date of publication** | 30/04/2025 |
| **Starting date** | 01/06/2025 |
| **Location** | OVPF- La Réunion Island |

### The institut de physique du globe de Paris

A world-renowned geosciences organisation, the IPGP is associated with the CNRS and an integrated institute of the Université Paris Cité. Bringing together more than 500 people, the IPGP studies the Earth and the planets from the core to the most superficial fluid envelopes, through observation, experimentation and modelling.

The research aeras are structured through 4 main unifying themes: Interiors of the Earth and Planets, Natural Hazards, Earth System and Origins.

The IPGP is in charge of labelled observation services in volcanology, seismology, magnetism, gravimetry and erosion. And the IPGP's permanent observatories monitor the four active French overseas volcanoes in Guadeloupe, Martinique, Réunion Island and Mayotte.

The IPGP hosts powerful computing resources and state-of-the-art experimental and analytical facilities and benefits from first-class technical support. The IPGP provides its students with geosciences training that combine observation, quantitative analysis and modelling, and that reflects the quality, richness and thematic diversity of the research conducted by the IPGP teams.

### Team Department

### The researcher/postdoctoral position is assigned to the Piton de la Fournaise Observatory. As part of the CNRS-INSU national observation services, the missions entrusted to the IPGP, via the Piton de la Fournaise Volcanological and Seismological Observatory, are primarily:

### • observation of the activity of Piton de la Fournaise,

### • continuous monitoring of volcanic seismicity beneath Piton de la Fournaise and local seismicity across Reunion Island,

### • monitoring of deformations at Piton de la Fournaise,

### • monitoring the geochemistry of gases emitted in the soils of Piton de la Fournaise and in the Cilaos cirque.

### The observatory also contributes to providing early warning to the Zone and Civil Protection Headquarters of the Indian Ocean Zone during phases of the volcano's awakening. It thus informs the authorities responsible for the protection of people and property and participates in various prevention and knowledge dissemination projects. It participates in fundamental and applied research in the field of Earth sciences, particularly in cooperation with regional scientific organizations.

### The cutting-edge instruments and equipment it possesses and the various international projects in which its teams participate make the OVPF-IPGP a high-level platform for research, observation, and collaboration, both regionally and internationally.

### Missions

### Numerical development to model 4D thermo-hydro-mechanical processes within the earth crust (volcanoes,mid-ocean ridges …)

### Activities

Writing of Numerical codes, field campaigns (Piton de la Fournaise), writing of international articles, results presentation in national/international workshops and meetings

### Expected Skills

Skills in numerical methods for modeling in applied mathematics (thermal and element transfers in porous and fractured media)

### Obligations and risks

Daily schedule from Monday to Friday: 8 a.m. to 5 p.m. The post-doc may also occasionally participate in missions on the Piton de La Fournaise (maintenance/deployment of instruments) and will be invited to participate in on-call duties for monitoring the activity of La Fournaise and Mayotte.

### Training and experience required

Ph.D thesis

### How to apply

> CV and cover letter

> Contacts (2 contacts obligatoires pour l’entretien) : Fabrice J. Fontaine (fontaine@ipgp.fr); Aline Peltier (peltier@ipgp.fr)