Postdoc in PLanetary Sciences

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

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| **Researcher in** | Postdoc in PLanetary Sciences |
| **Duration** | 2 years |
| **Affectation** | CAGE team |
| **Salary** | 2183 to 2483 euros/month depending on experience |
| **Date of publication** | \*\*\* |
| **Starting date** | To be decided, from January 2025 to June 2025 |
| **Location** | IPGP, 1 rue Jussieu, 75005 Paris |

### 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 CAGE team (Cosmochemistry , Astrophysics and Experimental Geochemistry) is a team devoted to the study of planet formation and interior. It mixes theoretical models, laboratory analysis. It is a dynamical and young team, with 34 persons, including about 20 docs and postdocs. We are involved in several space missions (HERA, MMX, Hayabusa).

### Missions

The aim of this postdoc is to lead theoretical studies on the formation and evolution of asteroids, both from a dynamical and physical point of views. The postdoc will work at IPGP team, within the ROCHE project (a team gathering researchers from Observatoires de Paris and IPGP and funded by the French ANR) and will participate to international conferences and will also take part into the HERA space mission (to go to asteroid Didymos) in order to characterize its structure, dynamics formation and interior. The person will also write papers and will take part into international conferences to show his work.

### Expected Skills

Formation in physics, astrophysics, and a sense of numerical computing.

> Computer tools

Python, Fortran or C.

> Professional qualities

Good comunications skills, a good sense of physics , celestial mechanics.

### Obligations and risks

> Work schedules : 9AM-6PM

> Work attendance

> Professional trips : 2 or 3 per year

### Training and experience required

> a PHD in space science or astrophysics is required.

### How to apply

> CV and cover letter, send to Sébastien CHARNOZ (charnoz@ipgp.fr)

> Deadlines for applications : December 15th 2024

> Contacts (2 contacts are required for the interview)