



Researcher / graduate student position in

Asteroid Science

Three-year fixed-term position, Salary Level EG 13 TV-L, 100%

The Institute of Geophysics and Extraterrestrial Physics of the Technische Universität Braunschweig is looking to fill a researcher position (salary group 13 TV-L, 100%) as part of Prof. Jessica Agarwal's research group, **starting from the earliest possible date for a period of three years.**

The position will offer the possibility to work towards **obtaining a doctoral degree** from the Technische Universität Braunschweig.

The successful applicant is expected to carry out research to investigate the ice content of active asteroids from their response to violent events like impacts, and to teach Bachelor and Master students (2h per week per semester). The position includes the **following tasks:**

- Familiarise with the current knowledge on the causes and manifestations of asteroid activity, and the methods to study it.
- Analyse archival telescope images of active asteroids.
- Familiarise with and exploit data from telescope surveys, including LSST.
- Prepare observing time proposals to follow up specific questions for individual objects.
- Publish the results in a relevant refereed journal and present them at international meetings.
- Teaching at Bachelor and Master level, on average 2h per week per semester.

Inquiries for details on the project and the position are welcome and should be addressed to Jessica Agarwal (contact details below).

Applicants must hold a Master's degree or equivalent in a relevant field, and combine dedication to scientific work with the ability to work in a self-organised and efficient way. Good command of written and spoken English is required. Familiarity with programming and/or astronomical data analysis will be advantageous. For the teaching, knowledge of German will be a strong asset.

Applications should include a cover letter, a description of previous research (e.g., for a Bachelor and/or Master thesis), curriculum vitae, publication list if applicable, proposed starting date and the contact information of two potential referees. Applications must be sent by email as a single pdf file to Jessica Agarwal (j.agarwal@tu-braunschweig.de). **Review of applications will begin on June 16, 2025, and continue until the position is filled.**

Remuneration is in accordance with the collective agreement TV-L, pay grade E13 (100%), including 30 days of vacation per year. Social security benefits will be in accordance with public service regulations.

The **Institute of Geophysics and Extraterrestrial Physics** offers an active and interdisciplinary scientific environment with an open and collaborative atmosphere. Key research areas include Laboratory Astrophysics, Planet Formation, Space Physics, Applied Geophysics, and Small Body Astronomy and Exploration.

With about 16 000 students and 3 800 employees, **Technische Universität Braunschweig** is one of Germany's leading institutes of technology. We offer flexible working and part-time options, and a family-friendly university culture. We welcome applicants of all nationalities. We encourage people with severe disabilities to apply. Applications from severely disabled persons will be given preference if they are equally qualified. Please attach a proof of disability to your application. We are also working on the fulfilment of the Central Equality Plan based on the Lower Saxony Equal Rights Act (Niedersächsisches Gleichberechtigungsgesetz—NGG) and strive to reduce under-representation in all areas and positions as defined by the NGG. In this case, applications from women are particularly welcome.

The personal data will be stored for the purpose of processing the application. By submitting your application, you agree that your data may be stored and processed electronically for application purposes in compliance with the provisions of data protection law. Further information on data protection can be found in our data protection regulations at <https://www.tu-braunschweig.de/datenschutzerklaerung-bewerbungen>. Application costs cannot be reimbursed.

Full contact information:

Prof. Dr. Jessica Agarwal

Institute of Geophysics and Extraterrestrial Physics, Technische Universität Braunschweig
Mendelssohnstr. 3, D-38106 Braunschweig

Phone: +49 531 391 5249

Email: j.agarwal@tu-braunschweig.de