

Technische Universität Braunschweig - Institut für Flugberatung



Die Technische Universität Braunschweig ist mit mehr als 16.000 Studierenden und 3.800 Beschäftigten eine der führenden technischen Hochschulen in Deutschland. Sie steht für strategisches und leistungsorientiertes Denken und Handeln, relevante Forschung, engagierte Lehre und den erfolgreichen Transfer von Wissen und Technologien in Wirtschaft und Gesellschaft. Wir setzen uns konsequent für Familienfreundlichkeit und Chancengleichheit ein. Unsere Forschungsschwerpunkte sind Mobilität, Engineering for Health, Metrologie und Stadt der Zukunft. Starke Ingenieur- und Naturwissenschaften sind unsere Kerndisziplinen. Diese sind eng mit den Wirtschafts-, Sozial-, Erziehungs- und Geisteswissenschaften verzahnt. Unser Campus befindet sich inmitten einer der forschungsintensivsten Regionen Europas. Mit über 20 Forschungseinrichtungen in unserer Nachbarschaft arbeiten wir ebenso erfolgreich zusammen wie mit unseren internationalen Partneruniversitäten. Das Institut für Flugberatung sucht zum nächstmöglichen Zeitpunkt eine/n

Doktorand (m/w/d) auf dem Gebiet der passiven Satellitenfernerkundung von Kondensstreifen

(EG 13 TV-L, Teilzeit) Die Stelle ist befristet für einen Zeitraum von 3 Jahren zu besetzen. Die erfolgreiche Bewerberin/der erfolgreiche Bewerber erhält die Möglichkeit, zu promovieren.

Stadt: Braunschweig; Beginn frühestens: Frühestmöglich; Dauer: 3 years; Vergütung: EG 13 TV-L; Bewerbungsfrist: 31.03.2025

Aufgabenbeschreibung

- You will develop a passive remote sensing method to retrieve the radiative effect of contrails using geostationary imagers (e.g., MTG/FCI, GOES/ABI) and radiative transfer calculations (e.g. libradtran).
- You will apply existing tools to detect contrails and match them to the producing flights, and combine the results with the newly retrieved radiative effect.
- You will apply the model pycontrails/CoCiP and validate its simulated radiative effect against the satellite-based measurements in order to validate the model.
- You will point out weaknesses in pycontrails/CoCiP with respect to modelling the radiative effect and develop and implement model improvements.
- You will publish research findings and participate in national and international conferences.
- You will be involved in teaching at the University (preparation and implementation of courses as well as supervision of students' work).

Erwartete Qualifikationen

- You have a degree (Master's or equivalent) in Physics, Engineering, or Meteorology.
- You have good knowledge of the English language; German is a plus.
- You have good programming skills (e.g., Python) in a Linux environment.

- You have first experience in atmospheric and cloud physics, satellite remote sensing, modelling or statistical data analysis.
- You are flexible, can perform under pressure and work well in a team.
- You are aiming for a doctorate.

Unser Angebot

- Work on exciting future-oriented research topics in an inspiring work environment as part of the university community
- A vibrant campus life in an international atmosphere with lots of intercultural offers and international cooperations
- Pay in accordance with the collective agreement TV-L (a special payment at the end of the year as well as a supplementary benefit in the form of a company pension, comparable to a company pension in the private sector) including 30 days' vacation per year
- Flexible working and part-time options and a family-friendly university culture, awarded the "Family-friendly university" audit since 2007
- Special continuing education programs for young scientists, a postdoc program, as well as other offerings from the Central Personnel Development Department and sports activities.

Bewerbung

We welcome applicants of all nationalities. At the same time, 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. Therefore, applications from women are particularly welcome in this case.

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.

Questions and Answers

For more information, please contact Prof. Peter Hecker via email: p.hecker@tu-braunschweig.de

Deadline for applications is 31-Mar-2025

Are you interested? Please send your application preferably via email to p.hecker@tu-braunschweig.de

or via mail to

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Institut für Flugführung
Hermann-Blenk-Str. 27
38108 Braunschweig

Weitere Informationen unter <https://stellenticket.de/192005/TUBS/>
Angebot sichtbar bis 31.03.2025

