



# PhD position

(full time)

## Data-Driven Telemetry, Tracking and Command Operations of Agile Satellites

The Institute of Navigation (INS) at the University of Stuttgart, Germany, is looking for a highly motivated PhD student, who will work on the development of algorithms for telemetry, tracking, and command (TTC) operations of agile satellites. Research includes a review of machine learning algorithms, implementation and experimental testing of state-of-the-art procedures and development of novel approaches which enable automation of satellite operations.

Tentative start date: as soon as possible

Duration: 18 months (with the possibility of extension)

Position type: PhD researcher (TV-L E13, 100%)

### Your expected profile

- MSc degree in the fields of aerospace engineering, computer science, electronic engineering, physics, maths or geodesy.
- good knowledge about machine learning
- excellent computer and programming skills
- basic knowledge about satellite communications and signal propagation
- willingness to publish and present scientific results.
- highly motivated team player who is willing to contribute crucial components to complex scientific topics

### We offer

- the possibility to obtain a PhD degree with very close ties to different academic partners as well as space industry,
- the possibility to present results on national and international conferences and communicate your outcomes to a wide public audience,
- access to continuous learning and
- the chance to work on your personal and professional development, e.g. through participation in transferable skill courses.

The University of Stuttgart is an equal opportunity employer and strive for gender diversity. We welcome applications from all backgrounds. We are committed to increasing the number of individuals with disabilities in our workforce and therefore encourage applications from such qualified individuals.

Interested candidates may contact Prof. Hobiger ([thomas.hobiger@ins.uni-stuttgart.de](mailto:thomas.hobiger@ins.uni-stuttgart.de)) for further information or visit our homepage [www.ins.uni-stuttgart.de](http://www.ins.uni-stuttgart.de).

Applications including a motivation letter, a CV, 1-2 recommendation letters, transcripts and any other relevant documents should be sent in electronic form or by surface mail to

*Prof. Hobiger, Institute of Navigation, University of Stuttgart, Breitscheidstrasse 2, 70174 Stuttgart, Germany.*

