

HiWi Position: General Support of Research and Development

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Background

The Chair of Astrodynamics is developing small-scale spacecraft demonstrators to support research and education in spacecraft guidance, navigation, and control.

We are looking for a student assistant (HiWi) to support the development and operation of experiments in our laboratory and workshop, and to assist researchers and thesis students with a variety of tasks.

The work will be embedded in a collaborative research environment together with thesis students and researchers at the Chair.

Before applying, please read the following task description and necessary prerequisites. If you are interested in the position and feel like you are a good fit, send a short *motivational statement* (max 1 page), a tabular *CV*, a current *transcript* and a description/list of any *relevant projects* you previously took part in to jannes.huehnerbein@tum.de.

We offer an **8 h/week HiWi contract**. Applicants must be able to commit **at least until the end of the winter semester 2026/27**, ideally longer.

This is an **onsite position** at our Chair on the **TUM Ottobrunn campus**; regular presence onsite is required.

Tasks

- Active participation in the further development of our research environment
- Support the operation of experiments at the Chair of Astrodynamics
- Support researchers and thesis students with a variety of tasks, such as:
 - CAD design and 3D printing
 - Programming in C, C++, Python, and Julia
 - Organization and inventory of the lab space

Prerequisites

- Willingness to take ownership of tasks
- Independent and well-organized way of working

Beneficial qualifications include:

- Experience with CAD software and 3D printing
- At least some programming skills in one or more of the following languages: C, C++, Python, or Julia
- Some prior hands-on experience with robotics, aerospace hardware, or laboratory test systems

Not all of these qualifications are mandatory; but the more, the better.