



## **Task Description Student Assistant**

### **Supervising the Spaceflight Simulator Training Practical Sessions with Students**

#### Motivation:

The Spaceflight Simulator is a simplified replica of a spacecraft cockpit built to the true scale of the original Soyuz spacecraft. Here students learn to control and maneuver a complex spacecraft in a typical mission scenario, such as docking to the International Space Station (ISS). The movements of the spacecraft in orbit with its 6 degrees of freedom are modelled realistically.

The tasks of the student assistant include the supervision of the training sessions with students and supporting the lecture "Spaceflight Simulator". Furthermore, it is expected that the student assistant supports the Institute of Space Systems (IRS) during public outreach activities regarding the Spaceflight Simulator. A possible task in the future might be upgrading the simulator to enable flights with the Crew Dragon or Orion spacecraft beyond Earth orbit. It is expected that the student is available for about 20 hours of work per month, which will vary throughout the semester.

#### Task Description:

- Familiarization with the Spaceflight Simulator
- Supporting the lecture "Spaceflight Simulator"
- Supervising the students during the Instructed Training Sessions
- Public outreach activities regarding the simulator
- Development and implementation of new ideas or improvements for the future of the simulator

#### We are looking for someone who is:

- Reliable & able to work in a team
- Flexible Scheduling
- Fluent in English
- Available for about 20h per month
- Previous experience with the Spaceflight Simulator is a benefit

#### Internal advisor:

Felicitas Leese

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#### Start date:

01.10.2025

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#### **Professors at IRS:**

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