



## Task Description Student Assistant

### Supervising the Soyuz Simulator Training Practical Sessions with Students

#### Motivation:

The Soyuz Simulator is a simplified replica of the Soyuz cockpit built to the true scale of the original. Here students learn to control and maneuver a complex spacecraft in a typical mission scenario, such as a flight 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 the students and supporting the lecture "Rendezvous and Docking to a Space Station". Furthermore, it is expected that the student assists the Institute of Space Systems (IRS) during public outreach activities regarding the Soyuz 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 might vary throughout the semester.

#### Task Description:

- Familiarization with the Soyuz Simulator
- Supporting the lecture "Rendezvous and Docking to a Space Station"
- Supervising the students during the Instructed Training Sessions
- Public outreach activities regarding the simulator
- Development of new ideas for the future of the simulator

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

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

#### Internal advisor:

Felicitas Leese

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#### Start date:

15.11.2024

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#### Professors at IRS:

Prof. Dr.-Ing. Stefanos Fasoulas (Managing Director) · Prof. Dr.-Ing. Sabine Klinkner (Deputy Director) · Prof. Dr.-Ing. Claas Olthoff · Hon.-Prof. Dr.-Ing. Jens Eickhoff · apl. Prof. Dr.-Ing. Georg Herdrich · Hon.-Prof. Dr. rer. nat. Volker Liebig · Hon. Prof. Dr. rer. nat. Christoph Nöldeke · Prof. Dr.-Ing. Stefan Schlechtriem · apl. Prof. Dr.-Ing. Ralf Srama  
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