

Job Opening

Student Assistant in the Space Propulsion Working Group (m/f/d, Master)



Figure 1: Silvestri, S. (2019). Investigation on heat transfer and injector design criteria for methane/oxygen rocket combustion chambers.

Current trends in space flight, such as the construction of mega-constellations, miniaturization and in-orbit servicing, place new demands on the propulsion systems of spacecraft. In order to address these challenges and investigate new technical solutions, a test stand for rocket engines is to be set up at TU Braunschweig's Institute of Space Systems.

The Space Propulsion working group is looking for a student assistant to support the construction and calibration of the engine test stand with up to 40h per month.

Tasks:

- Dimensioning and CAD design of test stand components
- Commissioning of hardware
- Assisting in the construction of the test stand and implementation of new components
- Maintaining and expanding the data acquisition and control software in MATLAB/Simulink
- Creating and maintaining the relevant documentation

Requirements:

- Completed Bachelor's degree in mechanical engineering or related majors
- Experience in CAD (CATIA and/or Inventor)
- Knowledge of MATLAB / Python
- Systematic and independent working approach

Please submit your application by **August 15th, 2025** via e-mail to tobias.stelzer@tu-braunschweig.de.

Severely disabled applicant will be given preference in case of equal suitability. Proof must be enclosed. Furthermore, the Institute strives to increase its percentage of women and therefore strongly encourages women to apply. Applications from people of all nationalities are welcome.

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.

Contact:

Tobias Stelzer
Research Assistant
Space Propulsion

Tel: +49 531 391 9977

Mail: tobias.stelzer@tu-braunschweig.de

Web: www.space-systems.eu

Technical University Braunschweig
Institute of Space Systems
Hermann-Blenk-Str. 23
38108 Braunschweig

Germany