

Job Opening: Mechatronics

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

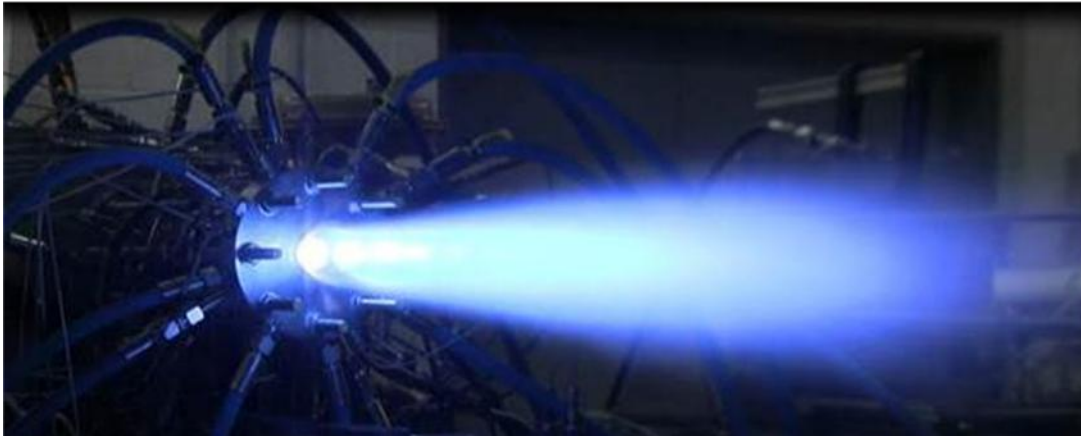


Figure 1: Silvestri, S. (2019). Investigation on heat transfer and injector design criteria for methane/oxygen rocket combustion chambers.

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:

- Assisting in the assembly of the control and data acquisition system electronics
- Assembly of terminal-block based control cabinets
- PCB assembly (SMD/THT soldering)
- Assembling of plugs/sockets and cables (soldering/crimping)
- Assisting with complete system assembly and commissioning tests involving the fluid and mechanical system
- Creating and maintaining the relevant documentation

Requirements:

- Enrolled in a degree program (bachelor/master) in Electronics, Mechatronics, Aerospace Engineering, or similar
- Experience working with electrical hardware, data acquisition systems, or similar knowledge
- Systematic and independent working approach

Please submit your application by **November 14th, 2025** via e-mail to patrick.ploerer@tu-braunschweig.de.

Severely disabled applicants 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/datenschutz/erklaerung-bewerbungen>. Application costs cannot be reimbursed.

Contact:

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