Technische Universität Braunschweig - Institute of Robotics and Process Informatics

With around 16,000 students and 3,800 employees, the Technische Universität Braunschweig is one of Germany´s leading institutes of technology. It stands for strategic and performance-oriented thinking and acting, relevant research, committed teaching, and the successful transfer of knowledge and technologies to the economy and society. We consistently advocate for family friendliness and equal opportunities. Our research focuses are mobility, engineering for health, metrology, and city of the future. Strong engineering and natural sciences are our core disciplines. These are closely interconnected with economics, social and educational sciences and humanities. Our campus is located in the midst of one of the most research-intensive regions in Europe. We work successfully together with over 20 research institutions in our neighborhood as we do with our international partner universities. Starting from on April 1, 2026 (or later). For the new professorship AI-based Robotics at the Institute of Robotics and Process Informatics we are looking for two

Research Associates (m/f/d) in the field of AI-based Robotics

(EG 13 TV-L, full-time/part-time) The position is to be filled on a fixed-term basis for 3 years. There is the possibility of extension to a maximum of 5 years. The successful applicant will be given the opportunity a doctorate. The new AI-based Robotics professorship at the Institute of Robotics and Process Informatics will start in April 2026. We are shaping the future of intelligent, industry-ready robotics systems. Based on our expertise in applied machine learning for industrial robotics, distributed automation and control systems, human-centered assistance, and cognitive ergonomics, we develop AI-driven robotics that integrates seamlessly into real-world working environments. Our vision is to create adaptive, networked, and human-centered robotics systems that make industrial processes more intelligent and provide targeted support for human work. To this end, we combine modern AI methods with robust distributed architecture concepts and a clear focus on safety, comprehensibility, and practical applicability. We offer a unique profile: intelligent, scalable robotics that is not only powerful, but also collaborative, explainable, and ergonomically effective. In research and teaching, we rely on interdisciplinary approaches, open collaboration, and prototypical implementations to responsibly anchor AI-based robotics in industry.

City: Braunschweig; Starting date (earliest): 01/04/26; Duration: 3 years;
Remuneration: EG 13 TV-L; Closing date: 09/02/26

Working field

- You will conduct research and development in the field of AI-based robotics on a topic to be agreed upon with the chair. Individual strengths and preferences will be taken into account.
- You will apply for and work on research projects.
- You will publish research results and participate in national and international conferences.
- You will support university teaching (preparation and implementation of courses

as well as supervision of student work).

Requirements

- You have a university degree (master's or equivalent) in computer science, technical computer science, electrical engineering, mechatronics, or a similar field of study.
- Advanced knowledge of robotics (mobile/stationary robotics, kinematics, dynamics, (path) planning, probabilistic methods, etc.) as well as in-depth knowledge of machine learning
- Practical experience in several of the following areas: sensor data processing, computer vision, ROS1/ROS2, gripper systems, industrial robot programming, safety technology for robotics
- Excellent programming skills (C++ and/or Python)
- You are flexible, resilient, and able to work well in a team.
- At the same time, you have a high degree of independence and willingness to familiarize yourself with new topics.
- You have good skills in abstraction, modeling, and creative problem solving.
- Very good written and spoken German and English skills
- You are pursuing a doctorate.

What we offer

- Work on exciting future-oriented research topics in an inspiring work environment as part of the university community
- A vibrant campus life in an international atmosphere with lots of intercultural offers and international cooperations
- Pay in accordance with the collective agreement TV-L (a special payment at the end of the year as well as a supplementary benefit in the form of a company pension, comparable to a company pension in the private sector) including 30 days' vacation per year
- Flexible working and part-time options and a family-friendly university culture, awarded the "Family-friendly university" audit since 2007
- Special continuing education programs for young scientists, a postdoc program, as well as other offerings from the Central Personnel Development Department and sports activities.

Application

We welcome applicants of all nationalities. At the same time, we encourage people with severe disabilities to apply. Applications from severely disabled persons will be given preference if they are equally qualified. Please attach a proof of disability to your application. We are also working on the fulfilment of the Central Equality Plan based on the Lower Saxony Equal Rights Act (Niedersächsisches Gleichberechtigungsgesetz—NGG) and strive to reduce under-representation in all areas and positions as defined by the NGG. Therefore, applications from women are particularly welcome in this case.

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.

Questions and Answers
For more information, please contact Prof. Dr. Jens Lambrecht irp(at)tu-braunschweig.de.

Deadline for applications is 09.02.2026

Are you interested? Please send your application preferably via email to I.Engel(at)tu-braunschweig.de

or via mail to

Technische Universität Braunschweig
Institut für Robotik und Prozessinformatik Mühlenpfordtstraße 23
38106 Braunschweig

More information at https://stellenticket.de/200520/TUB/
Offer visible until 09/02/26