Job posting

Type of position

☒ scientific
☐ administrative

Target group

☒ graduates
☐ post docs
☐ other

Title
Research assistant (m/f/d) in the field of human-robot collaboration for the disassembly of battery systems

Institution
Technische Universität Braunschweig
TU Braunschweig has around 17,800 students and 3,800 employees. It offers a broad spectrum of education and research with excellent infrastructure and a friendly atmosphere.

Position
This is a temporary full-time position for a limited period of 3 years, including the possibility to do your PhD. We are currently looking for a research assistant in the field of "Assembly and Manufacturing Automation" who will actively support our team and work with us to advance exciting projects in the field of automation and handling. You will be employed full-time for 3 years, with an extension being sought. Depending on the assignment of tasks and fulfilment of your personal requirements, you will be paid up to pay group 13 TV-L (between appr. 4188€ and 4748€ monthly gross salary at the beginning with regular increase).

Responsibilities
The tasks of this position include:
☐ You investigate different strategies and processes for the disassembly and reassembly of battery cells and systems with the help of innovative methods.
☐ As part of the team, you develop automated systems (e.g. linked robot cells), design their control and integrate inline-capable sensor technology for disassembly.
☐ Your research is focused on the implementation of human-robot collaboration approaches for the automated disassembly of large-scale battery systems.
☐ You evaluate the dismantling processes with regard to their technical, economic and ecological potential.
☐ You publish your research results in specialist journals and present them at national and international conferences.
☐ You supervise student work and provide support in courses.

Requirements
☐ You are curious, looking for challenges and enthusiastic about topics in the field of automation technology.
☐ You are at the end of your Master's degree or have completed your Master's degree in mechanical engineering (or comparable) with very good results.
☐ You are ambitious, passionate about your research topics and
proactively drive innovation.

- You are characterised by your engaging manner and your ability to communicate with various contacts (e.g. students, research partners, industrial partners).
- It is an advantage if you have knowledge in the areas of automation and process development.
- We would be pleased if you already have experience in working in interdisciplinary or international teams.
- You have a good command of written and spoken German or English.

**Application procedure**

Please send your application by e-mail to j.meiners@tu-braunschweig.de;

Deadline for the application is the 10.01.2023

The position is to be filled full-time, but is essentially suitable for part-time employment.

Applications from disabled persons will be given preference if they are equally qualified. Please attach a form of evidence of your disability to your application.

TU Braunschweig strives in all areas and positions to reduce underrepresentation in the sense of the Lower Saxony Equal Rights Act (Niedersächsisches Gleichberechtigungsgesetz—NGG). Therefore, applications from women are particularly welcome.

Application costs cannot be reimbursed. Your application can only be returned if you include a stamped addressed envelope.

For the purpose of carrying out the application process, personal data will be stored.

**Contact**

For more information, please refer to Julia Meiners,

j.meiners@tu-braunschweig.de