

We are currently looking for a full-time research associate (m/f/d) in the field of digitalization and data connectivity to join our team immediately.

## Digitalization and data connectivity of production systems

### About us:

The Institute for Machine Tools and Industrial Management (*iwb*) at the Technical University of Munich is one of the leading production technology institutes in Germany. We are doing research in the field of production management and logistics, machine tools, assembly technology and robotics, sustainable production, battery production, as well as laser technology. Within these fields, the research associates (m/f/d) engage in research, teaching, and industrial transfer with the goal of obtaining a doctoral degree.

### Requirements

- Above-average degree in mechanical engineering, physics, computer science, automation technology, mechatronics, or related disciplines
- Interested in production technology
- Enthusiasm for the supervision and programming of technical systems
- Determination and ability to work independently
- Creativity and joy of experimentation
- Team and communication skills
- Excellent English language skills, basics of the German language

### Responsibilities

- Research on the digitalization of production technology
  - Use of modern and universal communication protocols and data pipelines
  - Intelligent, application-oriented data aggregation, and development of information models
- Socially significant project topics, e.g., the first project will be in the field of electromobility
- Use of the latest methods, software development approaches, and of artificial intelligence
- Independently working on research and industrial projects
- Guiding and supporting students in their study projects
- Teaching in the field of production technology

### We offer

- Full-time position as research associate with the opportunity to pursue a doctoral degree
- Payment based on the Collective Agreement for the Civil Service of the federal states (TV-L)
- A large and well-equipped test field for conducting practical research work and implementing own ideas
- Modern workplace equipment (e.g., new IT equipment upon entry, height-adjustable desks, headsets) and access to high computing power at the *iwb* and the Leibniz Rechenzentrum (LRZ)
- Support from research-supporting staff in everyday research activities (project administration, mechanical manufacturing, electrical and measurement technology, IT/system administration, marketing, and graphic design)
- Comprehensive personnel development program covering topics such as self and time management, communication skills, team development, burnout prevention, and structured research work
- Support for the time after your academic career: Test field and office space for startups, job application training, maintenance of an extensive alumni network by the *iwb* e. V.

### **Application**

Please send your meaningful application documents, preferably combined in a PDF file, to Mr. Benedikt Schmucker ([benedikt.schmucker@iwb.tum.de](mailto:benedikt.schmucker@iwb.tum.de)) by 31 August 2023.

### **Further notes**

- TUM strives to raise the proportion of women in its workforce and explicitly encourages applications from qualified women.
- The position is suitable for disabled persons. Disabled applicants will be given preference in case of generally equivalent suitability, aptitude, and professional performance.
- The Technical University of Munich does not cover any costs associated with job interviews.
- In the case of a written postal application, we kindly ask you to submit only copies of your documents, as we regret that we cannot return your application documents after the conclusion of the process.
- When applying for a position at the Technical University of Munich (TUM), you submit personal data. Please refer to our data protection information in accordance with article 13 of the General Data Protection Regulation (DSGVO) <http://go.tum.de/554159> regarding the collection and processing of personal data in the context of your application. By submitting your application, you confirm that you have taken note of the TUM data protection information.

### **Contact information**

Institute for Machine Tools and Industrial Management (*iwb*)

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