



IMMS

Scientist for the development of process-oriented AI for embedded systems in industrial applications (d/f/m)

“Impossible” does not exist for you? Are you fascinated by AI and want to work with us to get it running on small embedded systems and make completely new AI applications possible? Then join our embedded AI team in the System Design department. Develop new process-related solutions with us to bring AI to machinery and derive decisions directly in the production process. Work with us on data acquisition and pre-processing, adaptive AI and the optimisation of AI implementations for resource-constrained systems.

WHAT TO DO:

- You will use and refine machine learning methods in industrial processes.
- To do this, you will also analyse raw data collected by sensors from various sources and prepare them into suitable data sets for AI solutions.
- You will apply data augmentation methods to improve the performance of AI models.
- You will use AI as part of innovative embedded systems.
- You will develop customised solutions with us.
- You will publish research results at scientific conferences and in journals.

WHAT TO BRING WITH YOU:

- Degree with a focus on AI in the field of computer science, mathematics, electrical engineering or a comparable field of study
- In-depth knowledge in the field of AI for industrial applications (e.g. predictive maintenance)
- Experience in the development of embedded systems
- Proactive, self-organised, structured and solution-oriented way of working, high quality awareness as well as teamwork and cooperation skills
- Good language skills in German and English
- Flexibility and resilience
- In-depth knowledge in the field of signal processing
- Very good knowledge of a higher programming language (C/C++)

WHAT WE CAN OFFER YOU:

- An attractive workplace in a modern, very well-equipped and industry-oriented research institute
- Work directly at the interface between university and industry
- Work in a flexible and creative team and on innovative and challenging topics
- Remuneration based on the framework conditions of the public service of the federal states
- Professional qualification and attractive further training opportunities
- Full- or part-time work, initially limited to 2 years

Place of work: Ilmenau

Team: System Design

Career level: Professional experience

Time scope: Full- or part-time work

Start: As soon as possible

Type of contract: fixed-term

Application deadline: 2024-06-30

Reference number: IMMS_0424_SD02

AND THIS IS US:

We strengthen enterprises with application-oriented research and development in microelectronics, systems engineering and mechatronics and transfer the results of basic research into applications and products. We support companies in launching internationally successful innovations for health, the environment and industry and provide solutions from the feasibility study to series production.

For the tasks described in the job offer and with the existing working conditions, an application is possible irrespective of gender and/or any physical disabilities. We foster professional equality of women and men. We invite women in particular to apply. As women are under-represented at IMMS, they will be given priority in the case of equal suitability, ability and professional performance.

ADDRESS:

IMMS Institut für Mikroelektronik- und Mechatronik-Systeme gemeinnützige GmbH (IMMS GmbH)
Ehrenbergstraße 27
98693 Ilmenau
Germany

WE ARE LOOKING FORWARD TO MEETING YOU!

We thank you for your interest in working with us. You can get to know us in advance by **contacting Tino Hutschenreuther:**
+49 (0) 3677 874 93 40.

