

# Job-Advertisement WHK/SHK

## About us:

We are a forward-thinking research team developing innovative gamification and digitization strategies. Our current project focuses on the development of IoT devices to digitalize manual workstations. In this project, we integrate cutting-edge technologies such as Augmented Reality (AR), digital assembly fixtures, camera-based evaluation systems, and modular assembly stations to make industrial processes more efficient and flexible.

## Your Responsibilities:

- **Development of IoT Devices**

Design and implementation of sensor- and actuator-based IoT solutions to capture and analyze process data at manual workstations.

- **Implementation of AR Applications**

Develop augmented reality applications that support employees during assembly and evaluation processes by providing visual assistance.

- **Digital Assembly Fixtures**

Design and prototype digitalized assembly fixtures that optimize and standardize the assembly process.

- **Camera-Based Evaluation Systems**

Develop and integrate systems for visual quality control that automatically monitor and evaluate work processes.

- **Implementation of Modular Assembly Stations:**

Plan and implement flexible, modular workstations that can be adapted to different production requirements.

- **Prototype Testing and Data Analysis**

Conduct test series, analyze collected data, and continuously improve the systems.



## Next Step as an Engineer:

Gain experience to develop yourself! We offer AI topics, projects in the field of image processing, software projects, IoT projects, AR/VR, and much more! Take the leap from theory to practice!

### Arbeitszeit & Rahmenbedingungen:

- 8–14 hours per week (flexible arrangement)
- Start-Date: Immediately or by arrangement
- The standard rates of FH-Aachen apply

### Bewerbung:

Please send your complete application documents (cover letter, resume, relevant certificates) via email to: Johannes Hug. We look forward to receiving your application and to shaping the future of digitalized manual workstations together!

### Prof. Dr.-Ing. Jörg F. Wollert

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