

WISSENSCHAFT UND WIRTSCHAFT IN EINEM JOB GEHT NICHT.

DOCH.

Finde es heraus am Fraunhofer IPT.

AS OF NOW, FRAUNHOFER IPT AT RWTH AACHEN OFFERS A
STUDENT ASSISTANT POSITION (M/W)
**APPLICATION DESIGN IN THE FIELD OF PLANT
NETWORKING AND AUTOMATION**

At Fraunhofer Institute of Production Technology IPT we develop and design production machines for manufacturing in the sense of Industrie 4.0. This not only involves the development of new machines, but also the further development of existing machines to increase process transparency. In order to realize this, interfaces for process data acquisition to various proprietary systems and data processing algorithms, for example with deep learning algorithms, are required for the classification of different states. An essential goal is to be able to make a defined statement about the relationship between component quality, tool wear, process status and other physical parameters by the intelligent use of sensors and algorithms in the manufacturing process.

Your Task

- Support in the design of control systems and retrofit applications for production machines
- Programming of interfaces and algorithms for data collection and utilization
- Use of databases
- Independent participation in the design of application architectures and in the execution and planning of experiments
- Evaluation and documentation of the results
- Research on the state of the art

Your Skills

- You study Data Science, Informatics, Mathematics, Automation, Software Engineering or similar and you are passionate about technological challenges
- You do have extended knowledge in Numerical Methods in Engineering, Data Science and programming
- You have a good knowledge of network protocols, network infrastructure and you have already gained some experience with various communication interfaces
- You have gathered first experience with Python and C#
- You are curious, take initiative and show responsibility
- You are fluent in German and/or English