The amount of field data of IoT Devices is constantly increasing. Technologies such as 5G are intended to implement the necessary data transmission. However, even high-performance transmission technologies will not be able to transmit the increasing amount of data in the long term. In the future, data will no longer be increasingly processed in the cloud, as it is today, but on edge. Companies must understand which forms of data processing they have to carry out in the cloud and which on edge.

Master Thesis
Development of an IT Architecture Model for Empowered Edge Application

Tasks:
- Definition of edge computing and cloud computing concepts,
- Definition of artificial intelligence,
- Description of industrial edge and cloud computing use cases,
- Description of IT architecture models supporting Edge or Cloud applications,
- Development of a generic IT architecture model for empowered edge applications.

Qualification / profile:
- Student(s) from the fields of industrial engineering or mechanical engineering, data analytics and decision science,
- Independence and reliability,
- Careful working methods,
- Very good MS-Office and Citavi knowledge

We offer:
- Complex and highly topical task whose results can be evaluated directly in a research project,
- Topic that is used in practice,
- Cooperation with renowned companies and research partners,
- The possibility of flexible time management and independent working,
- Constructive and continuous support through regular feedback loops in the form of on-site meetings.

Contact for:
Jan Hicking, M.Sc.
Phone: +49 241 47705-513
e-Mail: jan.hicking@fir.rwth-aachen.de

If you are interested, please send your documents (short cover letter, curriculum vitae, certificates, current excerpt of the grade sheet) in digital form to the e-mail address provided.