

# Technical Project (Master) or Bachelor Thesis

Increase the OEE (Overall Equipment Efficiency) and develop a maintenance plan for the Fischertechnik production system. Including predictive maintenance measures.



## Project Tasks

- Testing if the current Pi's should be replaced by industrial Pi's
- Set up and tracking of energy profiles.
- Explanation of how the energy profiles will be generated and traced.
- Define KPIs and create a Maintenance Dashboard.

## Field of Study

- M&D, IBS, SES (for Bachelor thesis)
- Mechanical Engineering (Master project)

## Qualification to improve (to gain)

- High interest in the topic
- Python or other programming languages
- Energy measurement/themes
- ERP Systems

## Contact

**Prof. Dr.-Ing. Agnes Pechmann**  
Fachbereich Technik – Maschinenbau  
E-Mail: [agnes.pechmann@hs-empden-leer.de](mailto:agnes.pechmann@hs-empden-leer.de)

**Ole Bergmann B.Eng**  
Fachbereich Technik – Maschinenbau  
E-Mail: [ole.bergmann@hs-empden-leer.de](mailto:ole.bergmann@hs-empden-leer.de)