

"At Diehl, you are not a small cog in the system.  
In my role, I have a **significant impact**  
on product development and can take  
responsibility for making decisions that count."

# MAKE IT WORK



## Masterthesis (m/f/d) - non-local and mixed Sensor systems: Evaluation of correction algorithms

### These are your tasks:

- Based on simulations and measurements of a sensor system consisting of many different sensors, which are mounted in a water distribution network you will investigate the properties of the single sensors.
- You will apply the concept of Kalman Filters and similar algorithmic concepts to the data of the sensor system.
- You will evaluate your findings in terms of measurement accuracy and data quality of the respective sensors and sensor system.
- You will communicate your findings to the team and finally write a thesis about your project.

### Who we are looking for:

- Studies in one of the subjects Physics, Computer Science, Mathematics or related field.
- Knowledge in statistical Data analysis, Data reduction and Sensor data fusion is beneficial.
- Knowledge in python programming language incl. typical libraries like pandas, numpy.
- Understanding of sensor systems and digitalisation of measurement values is beneficial.
- Basic understanding of numerical optimization algorithms is beneficial.
- First experience in physical simulation of sensorics or sensor systems is beneficial.

**Work location:** Nuremberg

**Job Level:** Thesis

**Working time:** 19 hours per week

**Employment contract:** 6 months

**Division:** Diehl Metering

**Start:** 01.10.2025

Note: Applicants (m/f/d) with a severe disability will be given preferential treatment if equally qualified. Should you wish to do so, please indicate your SB status in your application on a voluntary basis.

### These are your potential benefits



Good traffic connections



Flexible working hours



Family-owned company



Canteen



Parking space

# Achieve what matters, with Diehl.



Diehl Metering GmbH  
Dana Müller  
Industriestraße 13, 91522 Ansbach  
[dana.mueller@diehl.com](mailto:dana.mueller@diehl.com)

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