

"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 HAPPEN



Masterthesis (m/f/d) - antenna matching via signal processing

These are your tasks:

- In the first part of the work, you investigate how the noise figure of a specific receiver changes with different input impedances.
- Measurements or simulations are used to evaluate the noise performance under varying impedance conditions.
- In the second part, you implement an algorithm to estimate the noise figure or the signal-to-noise ratio.
- Existing algorithms may be extended or adapted for this purpose.
- The goal is to improve the understanding and evaluation of receiver performance under realistic conditions.

Who we are looking for:

- You have a degree in electrical engineering or information technology.
- You are interested in understanding how different installation environments affect antenna impedance.
- You are able to estimate antenna impedance to address mismatches.
- You configure matching circuits to improve the range of the radio system.
- Knowledge of signal processing and radio frequency technology is an advantage.

Work location: Nuremberg

Job Level: Thesis

Working time: Full time

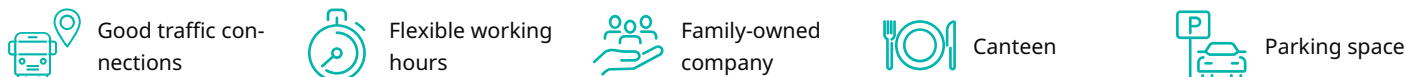
Employment contract: 6 months

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



Achieve what matters, with Diehl.



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