MATERIALS CENTER LEOBEN





To strengthen our team, we are looking for someone with the following qualifications and responsibilities:

Master Thesis

Implementation of a central control unit for an induction test rig

Reference-n°.: MCL_197

Data Science - Automation - Induction Heating

These topics inspire you or you are already familiar with them? Then you are the right person for this position!

What are we looking for?

- Bachelors degree as well as ongoing matriculation in a master's programme in mechanical engineering, materials science, physics or similar studies
- Knowledge in programming languages (Python is mandatory)
- Experience with PLCs is welcome
- Interest and experience in experimental techniques and data science
- Scientific curiosity, team skills, self-initiative
- Good oral and written communication skills in English

We work in close cooperation with well-known scientific- and company partners worldwide!



Your tasks?

- Selection of hardware components with focus on performance. and sampling frequency to ensure suitability for a high-frequency data acquisition system (HF-DAQ).
- Installation of a central control unit for an existing lab scale induction test rig.
- Establishment of a central monitoring of internal and external sensors (e.g. thermocouples) and central control of actuators (e.g. power supply and motor for inductor position).
- Establishment of communication of the central control unit with the preinstalled Siemens Simatic control unit.

Our offer:

An employment with an immediate start and an expense allowance of €3000 net for 6 months.

Please send your complete application documents by post or email. We are looking forward to knowing you!



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