



Master thesis available - in a start-up working on the energy transition

Topic: Modelling and Optimization of smart heating networks

Background

Arteria Technologies is a high-tech startup based in Graz developing software supporting the energy transition. It was founded in 2020 and develops algorithms and simulation tools to optimize planning and operation of various energy systems. Arteria's software is actively reducing CO2 emissions during operation of so called "smart heating networks". For an existing client project, Arteria searches for a highly motivated master student to support the development of simulation and optimization models combined with data-driven analysis.

Your profile

- Master student in the field of energy technology, physics, computer science or similar
- Excellent knowledge in modelling, simulation and optimization techniques (thermodynamics, hydraulics, optimization techniques, exergy-thinking)
- Basic understanding of renewable energy system and their challenges
- Good knowledge of working with Matlab and Python, Cloud environments are a plus
- Knowledge of working with data and data-driven approaches (ML, AI) is a plus
- Willingness to learn new things and adapt quickly in a dynamic start-up environment
- Master thesis either in German or English

Our offer

- A master thesis embedded in an ongoing client project, steep learning curve at the edge to support the energy transition
- A 6 months purpose-based working culture with flat hierarchies, international working environment and a free working style
- Working closely with the CEO who is also an experienced teacher/supervisor
- The possibility to stay on in the company and become a leading research engineer afterwards
- A compensation tailored to your profile, with a minimum success fee of € 3.500.

Are you interested?

Learn more at www.arteria.at and get in touch with DDI Dr. Stefano Coss through: stefano.coss@arteria.at
