

Trainee: Electromagnetic and Control of Electrical Machine

SEDRIVE AB, Mölnlycke, Gothenburg, Sweden

www.sedrive.se

About the Job

SEDRIVE is committed to provide pioneering engineering services for development of sustainable electric drive unit for different transportation and future technology segments. The drive unit design includes different aspects such as electromagnetic, control, thermal, mechanical as well as interaction with electromagnetic, control, thermal, mechanical, and related power electronics.

SEDRIVE is expanding and need trainee engineers for Electromagnetic and Control of the electric drive unit. As a Trainee Engineer, you will be able to develop your skills in the area of electromagnetic and control of electrical drive unit.

Roles and responsibilities

As a Trainee Engineer you will be working with electromagnetic, control and primary thermal evaluation of different advanced electric drive unit technologies including e-motor, converter, and converter control system.

- Develop 2D and 3D parametric FEM electromagnetic models.
- 2D and 3D electromagnetic analysis of electrical machine using analytical and finite element analysis software.
- Develop analytical motor model for control.
- Evaluate electromagnetic phenomena of electrical machine.
- Electromagnetic motor design for manufacturing.
- Close collaboration with Mechanical Design Engineer of electric drive unit.

Required Competencies

- Have a good understanding in overall motor drive system.
- Competence in Finite Element based simulation software for example JMAG.
- Finite element thermal simulation for example JMAG thermal.
- Fluent in English (speaking and writing).
- Bachelor/Master of Science in Electrical, Control or Power Engineering.

Desired Characteristics

- Hardworking and motivated Engineer
- Good communication skills

- Quick comprehension ability
- Independent and result-oriented
- Energetic, fast learner and dedicated to take responsibility.
- perfection in completing task.

If you believe you are the right person for this position, please send your application including CV and motivation letter to jahirul@sedrive.se.