

Design Engineer Thermal and CFD Analysis

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 design for different transportation and future technology segments.

SEDRIVE is expanding and need a Design Engineer for thermal evaluation of the electric drive unit. As a Design Engineer, you will be core competence in the thermal analysis, particularly focusing on Computational Fluid Dynamics (CFD).

Roles and responsibilities

As a design Engineer you will be working with advanced electric drive unit technologies including e-motor, converter, and in some cases together with transmission system.

- Build 2D and 3D model for overall thermal and CFD analysis of the motor drive system including transmission.
- Development of thermal model taking into account the powertrain temperature including the battery.
- Mechanical CAD drawings for new cooling concept and innovative cooling solution.
- Manufacturing CAD drawing of A, B or C Sample.
- Close collaboration with electromagnetic and control expert of electric drive unit.

Required Competencies

- Have understanding in overall motor drive system.
- Competence in Particle-based flow simulation for example Particleworks.
- Finite element thermal simulation e.g. JMAG thermal.
- Expertise to work with 2D and 3D CAD software.
- Fluent in English (speaking and writing).
- Bachelor/Master of Science in Mechanical 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 by latest February 15, 2024.