

Mechanical Engineer

Duties

Duties will include the following:

- Assist with marketing and sales activities
- Planning and executing multiphysics modelling and simulation projects
- Writing project feedback and technical reports
- Project feedback and technical discussions and presentations
- Attend and present at conferences

Working Hours

The position requires normal office hours, 5 days per week. Limited travel will be required.

Qualifications

B.Eng. Mechanical Engineering, M.Eng. Mechanical Engineering, or equivalent

Knowledge

The candidate must have knowledge of the following:

- Numerical methods (convergence and stability)
- Partial differential equations (formulation, boundary conditions and solution)
- Computational meshing
- Finite element method and/or finite volume method

Required Skills

The candidate must have the following skills:

- Good analytical skills
- Ability to work in a small team
- Good interpersonal communication skills
- Good technical writing skills
- CAD software (3D CAD model generation)
- Multiphysics software (meshing software, Fluent, Star-CCM+, OpenFOAM, ANSYS, FlexPDE, FEniCS)

Recommended Skills

The following skills will be to the candidate's advantage, but are not requirements:

- Programming (MATLAB, Python and/or C++)
- Linux
- LaTeX

Required Experience

The candidate must have at least 5 years experience in the field of mechanical engineering with experience in finite element modelling and/or computational fluid dynamics.

Please submit your CV to info@ex-mente.co.za or contact Marinda Zietsman at

+27 12 3482438 for more information.