

Job/Position: Manager - CFD

Company Name: TEFUGEN Technologies Private Limited

Work Location: Thuvakudy, Trichy.

About TEFUGEN:

TEFUGEN Technologies Private Limited is a global provider of Engineering/IT solutions but not limited to Computational Fluid Dynamics (CFD), Finite Element Method analysis (FEM), Engineering analysis, Software development & Automation focusing on various industrial domains throughout the world. We continue to expand our reach and capabilities to various industries including thermal power plants, solar power plants and other energy & power generation industries. We constantly thrive to build our reputation and enabling our clients to recognize TEFUGEN as a company with high standards in offering cutting-edge solutions throughout the world.

Role Summary / Purpose:

- Managing CFD Team to complete the projects with quality and within the stipulated time. Working in a dynamic team by carrying out simulation activities & perform Computational Fluid Dynamics (CFD) analysis, including 3D CAD model building, problem formulation, meshing, solving & post-processing, preparing report, analysing report & presenting report.

Essential Responsibilities:

- Analysing products/processes for fluid mechanics (internal/external flow and heat transfer) and fluid-structure interaction applications.
- Making recommendations and presenting results for a wide array of applications and industries on optimizing design based on simulation findings.
- Assisting our Commercial/Marketing Team during the order acquisition phase by demonstrating technical superiority and traveling to potential client(s) location whenever necessary.
- Conducting applied research and in-depth technical assessments for product development and/or product optimization using computational methods.
- Engaging in consulting opportunities with clients to assess their objectives and present simulation results. Providing technical guidance by conducting performance simulations and/or detailed CFD analysis.
- Interpreting CFD results, apply fundamental V&V (verification and validation) principles to assist in design
- Preparing and presenting the project proposals to technical leaders and clients.
- Collecting data required to make simulation, analysis, improvements and modifications.
- Leveraging CFD simulation capabilities to improve product designs, improve the understanding of products and technologies
- Developing and utilizing complicated simulation software tools
- Using scientific principles related to magnitude, momentum, heat transfer etc.
- Defining test cases to validate that the component design meets the component requirements.
- Ensuring that equipment works to its specification and to appropriate capacities.
- Investigating and troubleshooting plant/process problems.

- Scheduling and co-ordinating work in tight deadlines and within financial budget.
- Liaising with installation / project engineers and specialists to ensure accurate implementation of simulation results
- Executing conceptual studies and other supporting activities required for the project execution
- Supporting tool development efforts in context of CFD analysis and performance modeling
- Maintaining integrity on working with any kind of data provided by clients.
- Promote our products in seminars and publishing technical papers

Software Knowledge:

- Openfoam
- Star CCM+
- ANSYS
- ANSYS Multi Physics
- CFX
- Star CD
- CAD
- Linux
- Bash Scripting

Qualifications / Requirements:

Experience : 5 Years & above

Education : B.E / B.Tech / M.E / M.Tech – Mechanical or Chemical Engineering / M.Sc(Maths)/ M.Sc(Physics)

Industrial Type : Energy / Manufacturing / Industrial/ Production/ Machinery/ Analysis or Consulting Engineering Company / Analysis Company

Function Area : Simulation / Analysis

Skills Required:

- ✓ Knowledge and good understanding in Fluid Dynamics, Fluid Mechanics, Process calculation and Thermodynamics.
- ✓ Familiar with the steps necessary to analyse a typical component (e.g. model idealisation, mesh generation, model/solver setup and post-processing)
- ✓ Familiar with CAD and mesh generation software programs.
- ✓ FEM knowledge is preferable
- ✓ Practical and passionate in solving real-world industry problems.
- ✓ Comfortable with Linux operating systems and other open-source software applications.
- ✓ Basic knowledge in Maths and Physics & Chemistry.
- ✓ Fluency in English, Tamil & Hindi
- ✓ Ability to store and record information accurately
- ✓ Attitude to learn
- ✓ Good written and oral communication skills
- ✓ Good computer related skills

- ✓ Good social and interpersonal skills
- ✓ Experience in ERP is preferable.

Note:

Candidates are required to include your photo, current salary and expected salary in your resume.