POSITION: CFD Specialist

Job Description:

The CFD Specialist is involved in the design of marine propulsion systems. Job functions include:

- Work within the Design Engineering team to design, evaluate, and optimize mechanical, electrical, electro-hydraulic, and control components of marine propulsion systems.
- Use commercial CFD software (Fluent, CFX, Star-CCM+), to develop advanced CFD models and other types of engineering calculations (FEA [ANSYS, ABAQUS], and heat transfer) to evaluate and troubleshoot fluid flow, thermal, mechanical, and structural performance of thrusters/propellers, vessels, and other mechanical components of the mechanical and hydraulic power systems as per ABS and other marine specifications.
- Develop and apply new and unique engineering analysis and design methods and procedures. Research and development of new products under the general supervision of the Engineering Manager and/or the VP of Engineering.
- Use CAD tools (SolidWorks, Pro/E, AutoCAD) to construct 3-D models of components and systems for rapid prototyping, manufacturing, and validation tests. Plan, conduct, and direct product engineering projects to support manufacturing processes which are difficult and complex in nature, necessitating the application of advanced engineering knowledge.
- Provide engineering support to cross-functional groups such as project management, manufacturing, testing, and field services to ensure quality and project execution.

Minimum Requirements:

M.S. degree in Mechanical or engineering related to thermal fluid sciences plus two (2) years of industrial experience as the job offered or two (2) years of industrial experience in CFD applications for research and new product development using advanced CFD (Fluent, CFX, Star-CCM+), FEA (ANSYS, ABAQUS), CAD (SolidWorks, Pro/E, AutoCAD) and other engineering modeling/calculations to support design, manufacturing, testing, and troubleshooting as well as solving complex flow problems involving transient, multiphase, multicomponent, multiphysics, coupled flow/thermal/stress, and rotating equipment.

Send resume via email to jobs@thrustmastertexas.com