

## Job Position Description

**Title:** Mechanical /Thermal Engineer

**Company:** Cooling Source is a vertically integrated company engaged in the design, development and manufacturing of electronic cooling devices. The Company is structured into four divisions on the basis of product line offering as follows: Heat Sink, CNC machining, Designs & Value Added Thermal Assemblies.

### Reporting

**Relationship:** Reports to the President.

**Education:** Bachelor's Degree in Mechanical Engineering, Design Engineering or equivalent in relevant work experience required. Three plus years Heat Transfer and solid modeling engineering experience required

### Personal Characteristics/ Requirements:

- Finite Element Analysis (FEA) required. SW Simulation preferred.
- Experience in a fabricated metal product manufacturing environment required. Hands-on experience preferred.
- Solidworks experience preferred.
- Computational Fluid Dynamics (CFD) experience required.
- Strong knowledge and understanding of CAD application principles required.
- High proficiency personal computer skills, including Microsoft Office and Windows.
- Heatsink experience is preferred
- Understanding of engineering theories and principles required.
- Product testing experience desired.
- Strong project management skills.
- Strong attention to detail.
- Strong interpersonal, organizational, communication and presentation skills.
- High energy, positive, go-getter with a winning attitude and a desire for success.
- Ability to define problems, collect data, establish facts and draw valid conclusions, to prioritize and work in a multi-tasked environment.



- Ability to maintain the highest level of confidentiality.
- Excellent interpersonal, written and oral communications skills,
- Ability to work in a team fostered environment

**Principal Area of Responsibility:** Responsible for researching and developing concepts for new and/or improved products and production processes of heat transfer units. Finite Element Analysis (FEA) required. Solidworks experience preferred.

### **Specific Duties:**

- Conduct engineering studies on design of new or improved heat transfer units.
- Analyze cost, time limitations, planning and other technical and economic factors to determine feasibility of new and improvement to existing designs of heat transfer units.
- Analyze engineering proposals, process requirements, and related technical data pertaining to design. Use analysis to develop and/or determine feasibility of designs of new or improved units.
- Review product design for compliance with engineering principles, company standards, customer contact requirements, and related specifications.
- Prepare detailed drawings and schematics
- Coordinate manufacturing of prototype units and plans and oversees testing of same to identify defects.
- Coordinate activities concerned with technical developments, scheduling, and resolving engineering design and test issues and concerns. Evaluate engineering test results to determine if design meets functional and performance specifications and/or possible application to development of units or other uses.
- Prepare design modifications as required.
- Evaluate and approve design changes, specifications, and drawing releases of new and existing units.
- Prepare interim and completion project reports.
- Maintain knowledge of current engineering and technical changes and developments in heat transfer unit industry.
- Provide engineering, manufacturing and project management support.
- Knowledge, understanding, compliance, and enforcement of all applicable Federal, State and Local laws and regulations relating to job duties.
- Knowledge, understanding, and compliance with Customer and Cooling Source standards, policies and procedures.
- Make recommendations to implement improved processes.
- Provide feedback to management concerning possible problem or areas of improvement.
- Perform other duties as assigned by management



Cooling Source offers a competitive benefits package including: Personal Time Off, Holiday Pay, 401K retirement plan with employer matching & medical.

