

Mechanical Engineer-Refrigeration

Aspen Systems, Inc. is a privately held company located in the “495 Metro-West” area about 25 miles west of Boston. Established in 1984, Aspen has transformed from a small R&D company into a technology incubator, spinning off several entities which themselves have become highly respected organizations in their fields.

Aspen Thermal Division (ATD) is an independent organization focused on the development of novel technologies and products for microclimate temperature control. ATD product innovations have established new industry standards for size, weight, and power density. We are currently developing unique, small refrigeration systems for a number of military and civilian applications including portable personal cooling, electronics cooling, small appliances (refrigerators, freezers, water coolers), and medical devices. These products rely on Aspen’s proprietary miniature rotary refrigeration compressor, a uniquely innovative machine that is being prepared for high volume production.

We currently have an exciting opportunity for an energetic Mechanical Engineer with experience in refrigeration system design and testing. This position will include execution and oversight of the following tasks:

- Participate and lead a team of engineers, designers, and technicians in developing innovative microclimate temperature control products
- Interface with Government and commercial customers to determine product requirements
- Prepare technical and cost proposals
- Prepare refrigeration system and subsystem product specifications
- Prepare detailed project plans for schedule and budget
- Interface with subcontractors, consultants, and key component suppliers
- Perform engineering calculations, analyses, and modeling in refrigeration system and component level design and optimization including the following:
 - Compact, lightweight heat exchangers
 - Portable power supplies (rechargeable batteries, fuel cells)
 - Embedded digital controllers
 - Liquid circulating pumps
 - Fans/blowers
- Design and lead the fabrication and testing of laboratory bread board systems including the specification of instrumentation and data acquisition hardware
- Analyze test data and trouble shoot
- Design system packaging for ruggedization, manufacturability, ease of assembly, and serviceability
- Design sheet metal, stamped, machined, and molded parts
- Prepare monthly and Final Technical Reports
- Transition products to manufacturing

The ideal candidate will be a highly motivated, well rounded individual possessing a minimum of a BSME with an MSME preferred and ten plus years of professional experience. A “hands-on” engineer is sought with extensive practical knowledge of thermodynamics and heat

transfer. Significant work history with refrigeration and/or air conditioning systems must be demonstrated. Previous experience with Government contract R&D as well as product development is desired. The successful candidate will possess excellent writing skills as demonstrated in technical reports and proposals for R&D funding. A working knowledge of Microsoft Office, Project, PowerPoint, AutoCAD and/or SolidWorks is required.

Aspen Systems, Inc. is an equal opportunity employer. Interested candidates should send their resumes electronically to: hr@aspensystems.com

Or resumes can be sent by mail to:

Human Resources

Aspen Systems, Inc.

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