

## **Mechanical Technician-Refrigeration**

Aspen Systems, Inc. is a privately held small business 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 Technician with extensive experience in refrigeration and air conditioning system product development. This position will require the following skills:

- A thorough understanding of the theoretical principals of vapor compression cooling cycles
- Ability to read and understand mechanical drawings
- Designing and fabricating complex refrigeration units and appropriate test systems
- Select, calibrate and install instrumentation (thermocouples, RTDs, flow meters, pressure transducers, amp probes, etc.)
- Experience with standard laboratory measurement equipment, including multi-meters, tachometers, oscilloscopes, etc.
- Electrical skills including wiring and soldering
- Ability to set-up and program data acquisition systems
- Soldering and brazing of copper and aluminum tubing (welding experience is desirable)
- Experience with evacuation and charging equipment
- Working knowledge of machine shop tools (drill press, lathe, milling machine, band saw, etc.)
- Ability to formulate and execute efficient test plans and clearly communicate and document test results.
- Expertise in analyzing refrigeration system test data and trouble shooting performance problems
- Work with engineering to optimize the system design for performance and ease of assembly and service
- Customer interface for field trials and system demonstrations

The ideal candidate will be a highly motivated, well rounded individual with significant practical experience in the design, development, fabrication, testing and trouble-shooting of unique refrigeration based microclimate temperature control systems. A minimum of an EPA Section 608 Certificate is required with additional education and training desired. A minimum of 10

years experience in a dynamic, hi-tech R&D lab or product development environment is required. Note this is not a position for a service and maintenance technician. We need a self-starter with experience in a fast paced environment with the ability to handle multiple tasks and think on your feet. The successful candidate will possess excellent communication skills both oral and written. A thorough working knowledge of Microsoft Word and Excel are required. AutoCAD and/or SolidWorks experience is desirable.

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

Or resumes can be sent by mail to:

Human Resources

Aspen Systems, Inc.

184 Cedar Hill Street

Marlborough, MA 01754