



**POSITION:** Mechanical Engineer I

**BACKGROUND:** Engineering Design Team, Inc. (EDT) specializes in high-speed communication interfaces and systems. Since our founding in 1987, EDT has provided interface solutions to scientists and engineers worldwide in the scientific, industrial, and military communities.

**JOB OVERVIEW:** The Mechanical Engineer I (ME1) at EDT analyzes, designs, and modifies mechanical components associated with EDT's specialized computing products. The Mechanical Engineer joins a team of electrical and software engineers, and provides and coordinates all mechanical aspects of EDT's products.

- Design new computer system parts and assemblies, including chassis, heat sinks, cages, front and back panels, and accessories
- Modify existing parts and assemblies
- Analyze, design, and modify thermal components for computer systems and circuit boards
- Perform initial and ongoing design reviews
- Discuss and document requirements for a particular project and follow through the full development cycle from design through documentation, either alone or as a member of a small team
- Work with vendors to produce, test, and verify prototype and production parts
- Document manufacturing assembly procedures
- Provide drawings for use in customer documentation
- Provide solid model files for use by customers and vendors
- Follow standardized development protocols
- Install 3d party software applications such as SolidWorks
- Import partial and complete designs from various file formats for integration into parts and assemblies
- Organize and maintain existing design library
- Develop and test product prototypes, analyze results, and modify designs as needed for production
- Interface with mechanical 3rd party component manufacturers and vendors
- Research technologies to help solve design challenges related to reliability, thermal issues, and SwaP

**SUPERVISORY RESPONSIBILITIES:** None.

**JOB QUALIFICATIONS:**

Education: BA/BS required

Experience: 0-5 years relevant experience

- Proficient with SolidWorks
- Familiarity with thermal design principles
- Familiarity with tradeoffs associated with different methods, for example machining versus extrusions
- Ability to research basic technologies
- Familiarity with designing around computer systems and circuit boards
- Familiarity with use of 3D printers for prototyping

Certificates, Licenses, or Registrations: U.S. government security clearance a plus. Must be willing to pursue clearance when an applicable project and sponsor are available.

Specialized knowledge or abilities:

- English required
- Excellent written and verbal communications skills
- Excellent self-direction and multi-tasking skills
- Excellent problem solving skills
- Excellent interpersonal skills

**PHYSICAL DEMANDS:** Sedentary with computer usage most of the day, some walking, lifting, bending, and twisting. May occasionally lift up to 40 pounds.

**WORK ENVIRONMENT:** Office environment, phone/computer work, some manufacturing noise.

**IF INTERESTED, PLEASE SEND RESUME AND LETTER OF INTEREST TO:**

Sharon Bolesky  
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