

SAFE Inc. is customer focused, results-based engineering firm providing technical services such as mechanical testing, design, stress, fatigue and damage tolerance analysis for the aviation industry. We provide comprehensive engineering and maintenance support to the Department of Defense, commercial airlines, and major overhaul and repair facilities. Support includes evaluation and approval of repairs and modifications, evaluation of process specifications and development of specialized installation and tooling procedures. SAFE's work also includes engineering research for the United States Air Force Academy's Center for Aircraft Structural Life Extension (CASTLE). **SAFE Inc.** is a *Service Disabled Veteran Owned Small Business (SDVOSB)*. <http://saf-engineering.com>.

This is a full-time position. SAFE offers a full benefit package, including open PTO, a collaborative work environment, and strong company culture. Veterans and military spouses are encouraged to apply.

Position Description:

SAFE Inc. has an opening for a *Machinist and Engineering Technician* to support research and development activities in the areas of mechanical test and analysis, aircraft structures analysis and test, fatigue crack growth, additive manufacturing using supersonic particle deposition (SPD) and failure analysis of metallic components.

Work Location: USAF Academy, Colorado (primary) and Monument, CO (secondary)

Annual Salary: \$20 - \$25/hour (hourly)

The ideal candidate:

- Appreciates the flexibility and responsibility for planning and executing all phases of machining operations and the associated variety of tasks
- Takes pride in the high standards required of a world-class R&D organization
- Recognizes the importance of building and maintaining strong interpersonal relationships
- Identify and evaluate opportunities to improve capability through process and capital improvements
- Possess the professional acumen to efficiently operate in a facility shared by multiple organizations with unique priorities
- Effectively balance support for multiple concurrent programs

Responsibilities include:

- Machining mechanical test specimens, test fixtures, and test support equipment from aerospace materials including aluminum, titanium, and high-strength steel
- Planning proposed and ongoing machining operations by studying engineering drawings, test plans, and material specifications to determine equipment requirements, tooling needs, and labor hours
- Reviewing engineering drawings for manufacturability and providing constructive feedback
- Regularly collaborating closely with engineers to determine efficient methods for meeting challenging machining requirements
- Developing and documenting new work processes
- Generating CNC toolpaths using Mastercam 2D and 3D
- Programming, setting up, verifying, operating, and troubleshooting a variety of automated and manual machining equipment to include:
 - CNC mill
 - CNC lathe
 - Wire and plunge EDM
 - Waterjet
 - Surface grinder
- Inspecting and reporting part quality
- Maintaining safe operations by not only adhering to, but role-modeling best practice safety procedures

- Maintaining equipment by completing preventive maintenance; following manufacturer's instructions; troubleshooting malfunctions; calling for repairs
- Engaging in professional development opportunities and reading technical publications.
- Providing daily succinct progress and outlook updates to project managers

Qualifications:

Required Job Qualifications:

- Associate's degree in Machining Technology
- Skilled at reading and interpreting engineering drawings and related technical data
- Adept at machine and tooling selection and determining feed rates for various metallic materials
- Proficient in programming and operating CNC and manual machining equipment
- Ability to prioritize, initiate, and drive projects to completion
- Committed attention to detail
- Ambition to research gaps in knowledge
- Demonstrated ability to work collaboratively with engineers and independently to execute machining tasks
- Has the legal and ongoing authority to work in the US
- Ability to pass background check

Desired Job Qualifications:

- Demonstrated ability to execute all phases of machining including planning, machine setup, operating, and inspecting
- Experience with heat treating
- Skilled programming experience with Mastercam 2D/3D
- Operational background in wire EDM, waterjet, surface grinder, and CMM
- Knowledgeable in machining metallic air, land, and sea vehicle materials such as 2XXX, 5XXX, 6XXX, and 7XXX series aluminum alloys, titanium alloys, and high strength steel alloys
- Experience in designing, building, and testing prototypes
- Familiarity with SolidWorks

Please send resumes to Lianne McNew at Lmm@saf-engineering.com