Position: Engineering Technician (Machinist)

DEPARTMENT: NASA Ames

IMMEDIATE SUPERVISOR: Project Director

POSTING DATE: March 22, 2022

CLOSING DATE: Open Until Filled

SALARY: $21.15 - $46.15 per hour, DOQ/E

EXEMPT STATUS: Full-Time, Non-Exempt, Benefited

GENERAL NATURE OF POSITION

The applicant will serve as an engineering technician (machinist) within the U.S. Army’s 7- by 10-ft Wind Tunnel Operations Branch located on NASA Ames Research Center, Moffett Field, CA. The wind tunnel branch supports Army research and development test activities related to rotorcraft and vertical flight technology as well as external customers such as NASA.

The Army is seeking an engineering technician (machinist) to support the design, development, fabrication, integration, and installation of various test stands, models, support equipment, and hardware used in wind tunnel test activities. The incumbent must be familiar with and know how to safely use various machine tools for fabricating parts and components such as a: vertical band saw, lathe, knee mill, surface grinder, press brake, drill press, and CNC machine. Additionally, the incumbent would provide support in hardware assembly and disassembly, and would operate, with training certification, support equipment such as forklifts, man-lifts, and overhead cranes. The position requires the person to work independently and to be the single point-of-contact for machine shop expertise within the wind tunnel branch.

ESSENTIAL DUTIES & RESPONSIBILITIES

1. Operate and maintain the wind tunnel machine shop equipment including drill presses, sheers, lathes, manual milling machines, computer numerical control milling machine, band saws, and table saws.
2. Fabricate components using the aforementioned equipment based on two-dimensional drawings or three-dimensional manufacturing models.
3. Operate support equipment including man lifts, forklifts, electric carts, pallet jacks, dollies, and overhead cranes.
4. Properly dispose of and maintain records of hazardous waste.
5. Assist with the assembly and disassembly of test stands, support structure hardware, support equipment, and wind tunnel test articles using appropriate tools and safety measures.
6. Maintain, clean and organize equipment lockers, storage areas, workshops, and test areas.
7. Operate the wind tunnel fan drive system and hover chamber power console.
8. Provide support to other technicians, engineers, and support staff with the setup and operation of instrumentation, equipment and test articles used in wind tunnel tests and support activities.

INTERPERSONAL CONTACTS
Reports to the project director. Interacts and collaborates with SJSU Research Foundation research staff and NASA civil service staff daily.

SUPERVISORY RESPONSIBILITIES
No supervisory responsibilities.

QUALIFICATIONS

Education and Experience
• Associate degree and/or formal technical training in machine shop equipment operation (drills, presses, lathes, sheers, mills, computer numerical control, saws).
• Minimum of one to three years of experience working with machine shop equipment as outlined above.

Knowledge, Skills, Abilities Required
• Ability to safely operate and maintain machine shop equipment including drill presses, sheers, lathes, milling machines, computer numerical control mills, band saws, and table saws.
• Knowledge of Pro/E CREO Manufacturing and Heidenhain CNC Controls.
• General knowledge of mechanical, pneumatic and hydraulic systems.
• General knowledge of materials (steel, aluminum, plastics), material properties, and heat treatment processes.
• Familiarity with pressure transducers, flow meters, calipers, torque wrenches, torque specifications, and oil weights and uses.
• Ability to use tools correctly in the assembly and disassembly of mechanical, pneumatic and hydraulic systems.
• Ability to adhere to safety standards in all aspects of duties.
• Ability to read and interpret technical drawings to include two-dimensional plan forms and three-dimensional isometric drawings.
• Ability to work independently alone or as part of a team.
• Computer literacy with basic applications such as email, Word, and Excel.

Physical Requirements
• Climbing and descending stairs and ladders.
• Working in small spaces.
• Physical lifting required within OSHA standards.
• Located at the NASA Ames Research Center. Employee must meet security qualifications for entrance to the Center.
• Employee must be a US citizen or permanent resident.

Complexity of Duties
• Exercise independent judgment in the management and completion of a diverse set of tasks.
NOTE: This position description intends to describe the general nature and level of work being performed by people assigned to this job. It is not intended to include all duties and responsibilities. The order in which duties and responsibilities are listed is not significant.

BENEFITS
The San José State University Research Foundation (SJSURF) provides excellent benefits package to benefited employees. The comprehensive benefit package includes:

- a) Nine company subsidized CalPERS health insurance plans to choose from (employee contributions differ according to plan and level of coverage).
- b) Employer paid dental and vision for both employee and eligible dependents.
- c) Life, AD&D, LTD with supplemental coverage opportunities.
- d) 14 paid federal and state holidays.
- e) Retirement Plan: 403 (b) employee contribution plan component and a 403 (b) employer contribution component, which vests immediately.
- f) Vacation hour accruals and separate sick hour accumulations.
- g) Employee discounts.
- h) Paid training and professional development conferences.

Please visit the Benefits & Compensation page on the SJSU Research Foundation website for more detailed information.

COVID-19 VACCINATION POLICY
As required by the CSU Vaccination Policy, all new hires must be fully vaccinated against COVID-19 starting on September 30, 2021. Fully vaccinated means it has been 14 days after the second dose of the Pfizer or Moderna vaccine has been given, or it has been 14 days after the one dose of the J&J vaccine has been given. Additionally all employees are required to have booster shots and provide proof to SJSU by 02/28/2022 or after the six months from the final dose of the original vaccination, whichever is later. Proof of being fully vaccinated does not need to be disclosed until a job offer has been made, and proof must be submitted after the acceptance of the job offer. New hires may request a reasonable accommodation of the COVID-19 vaccination requirement based on medical or religious reasons. New hires must submit their request for an accommodation form after they accept the job offer, and before their scheduled start date. The reasonable accommodation provided to the employee, if any, will depend on the employee’s job and the applicable facts, but it may include weekly COVID-19 testing. New hires who do not submit, before their scheduled start date, proof of being fully vaccinated or a request for reasonable accommodation will have their job offer revoked.

APPLICATION PROCEDURE
To apply for this position, an applicant must submit a formal application for employment, as well as a resume and a cover letter. The formal employment application is located on the SJSURF website on the Forms page. All candidates must submit their application materials to foundation-jobs@sjsu.edu. Please add ENG TECH NASA to the subject line of the email.

A background check (including a criminal records check) must be completed satisfactorily before any candidate can be offered a position with the SJSURF. Failure to satisfactorily complete the background check may affect the application status of applicants or continued employment of current SJSURF employees who apply for the position.
REASONABLE ACCOMMODATION
The San José State University Research Foundation (SJSURF) is committed to providing access, equal opportunity, and reasonable accommodation for individuals with physical or mental disabilities in the employment, recruitment, examination, hiring and interviewing processes. If you are a job seeker with a physical or mental disability and require a reasonable accommodation to search, apply, or interview for a job opening or otherwise need a reasonable accommodation during the application and hiring process, please contact us at foundation-jobs@sjsu.edu. In the email message, please indicate your full name, phone number and the type of assistance required. You must not reveal the underlying medical reason for your needed reasonable accommodation or otherwise disclose confidential medical information.

ABOUT THE SJSU RESEARCH FOUNDATION
SJSURF employment is separate and distinct from San José State University or state of California employment. SJSURF employees are not employees of SJSU or of the state of California.

SJSURF is a non-profit auxiliary of San José State University. SJSURF is totally self-supported. The majority of the organization’s funding comes from the federal government, and other public and private entities. With annual revenues totaling over $65 million, programs managed through SJSURF cover a rich diversity of applied research, public services, and educational related activities.

**SJSURF is an equal opportunity employer** and does not discriminate on the basis of race, color, creed, gender, religion, marital status, registered domestic partner status, age, national origin, ancestry, physical or mental disability, medical condition, sex, genetic information, sexual orientation, military and veteran status or any other consideration made unlawful by federal, state, or local laws. It also prohibits unlawful discrimination based on the perception that anyone has any of those characteristics, or is associated with a person who has or is perceived as having any of those characteristics.