

San José State University Research Foundation

Position: Wind Tunnel Mechanic

DEPARTMENT: Department of Psychology

IMMEDIATE SUPERVISOR: Project Director

POSTING DATE: November 30, 2020

CLOSING DATE: Open Until Filled

SALARY: \$43,000 - \$84,000
Depending on Qualifications/Experience

EXEMPT STATUS: Full-time, Exempt

GENERAL NATURE OF POSITION

The applicant will serve as a wind tunnel mechanic 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 a wind tunnel mechanic 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 various tools used in hardware assembly and disassembly, and be able to provide mechanical support to various members of the wind tunnel team. Additionally, the incumbent would be trained to operate the wind tunnel fan drive system, the hover chamber power console, and various test stand operating stations and support equipment.

ESSENTIAL DUTIES & RESPONSIBILITIES

- a) Assemble and disassemble test stands, support structure hardware, support equipment, and wind tunnel test articles using appropriate tools and safety measures.
 - b) Operate transportation equipment to include man-lifts, forklifts, electric carts, pallet jacks, dollies, and overhead cranes.
 - c) Operate equipment used in test preparations such as pressure, temperature, force, angle, and motion measurement equipment.
 - d) Operate the wind tunnel fan drive system and hover chamber power console.
 - e) Perform periodic maintenance on test stands and support equipment.
 - f) Maintain, clean and organize equipment lockers, storage areas, workshops, and test areas.
 - g) 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.
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INTERPERSONAL CONTACTS

- 1) Reports to the project director
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SUPERVISORY RESPONSIBILITIES

N/A

QUALIFICATIONS

Education and Experience

- 1) Associates Degree and/or formal technical training in the areas of rotorcraft systems, machine shop equipment (drills, presses, lathes, sheers, mills, computer numerical control, saws), hydraulics, pneumatics, and technical drawings.
- 2) Minimum of 1-3 years of experience working with helicopter mechanical components, machine shop equipment (outlined above), and/or wind tunnel test activities.
- 3) Minimum of 1-3 years of experience with operating transport equipment to include man-lifts, forklifts, electric carts, pallet jacks, dollies, and overhead cranes.

Knowledge, Skills, Abilities Required

- a) General knowledge of mechanical, pneumatic, and hydraulic systems.
 - b) Familiarity with pressure transducers, flow meters, calipers, torque wrenches, torque specifications, and oil weights and uses.
 - c) Familiarity with machine shop equipment to include drill presses, sheers, lathes, milling machines, computer numerical control, band saws, and table saws.
 - d) Ability to use tools correctly in the assembly/disassembly of mechanical, pneumatic and hydraulic systems.
 - e) Ability to adhere to safety standards in all aspects of duties.
 - f) Ability to read and interpret technical drawings to include 2-dimensional plan forms and 3-dimensional isometric drawings.
- a) Ability to work independently or as part of a team.
 - b) Computer literacy with basic applications (email, Word, Excel)

Physical Requirements

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

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 comprehensive benefit package includes:

- a) Ten 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) 13 paid federal & state holidays

- e) Retirement Plan: 403 (b) employee contribution plan component and a 403 (b) employer contribution component, which vests immediately
- f) Vacation hours accruals and separate sick hours accumulations.
- g) Employee discounts
- h) Paid training and conferences

The Research Foundation provides excellent benefits package to benefited employees. Please visit [Benefits & Compensation page](#) to get more details.

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 applicant may do this via e-mail. The formal employment application is located on the Research Foundation website on the [Forms page](#). **Due to the COVID-19 health crisis, all candidates must submit their application materials via the foundation-jobs@sjsu.edu email address. Please be sure to include the HR job code of: Wind Tunnel on the formal employment application.**

Reasonable Accommodation

The San José State 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.

Research Foundation employment is separate and distinct from San José State University or State of California employment. Research Foundation employees are not employees of either SJSU or of the state of California.

The San José State University Research Foundation 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.

SAN JOSÉ STATE UNIVERSITY RESEARCH FOUNDATION 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.

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.