

Company Name: Sandia National Laboratories

Job Title: Electromechanical Technologist (Mid-Career)

Site Location: Livermore, CA

Job ID: 675317

Job Closing Date: 04/07/2021

To be considered for the position, candidates must apply here: <https://sandia.jobs/livermore-ca/electromechanical-technologist-mid-career/775E548DFED046AFBE9D1E24B72DB47C/job/>

What Your Job Will Be Like

We are seeking a R&D Electromechanical Technologist to join our outstanding research team. We are a diverse, interdisciplinary team of scientists and professionals. Consider joining this team. The expectation is that you will not have all of the skills identified below, but will value and seek the opportunities to learn the skills required to become a valued member of the team.

On any given day, you may be called on to do the following:

- Specify, procure, assemble, debug, and maintain custom-built and commercial mechanical and electromechanical components and systems (e.g., high-pressure combustion vessels, internal combustion engines, fuel injection systems, high-pressure gas delivery systems, laboratory instrumentation and control devices) necessary for carrying out our research mission. This will involve substantial hands-on activity as well as inspection and quality assurance of vendor supplied components.
- Design specialized mechanical components and develop fully dimensioned production drawings, using commercial computer-aided design packages.
- Instrument devices, such as high-pressure (3,500 atm) fuel injectors, and install/maintain basic lab instrumentation and equipment (e.g., commercial gas analyzers, flow instrumentation, and electronic solenoid valves).
- Support resident and visiting researchers and coordinate support activities with peers, facilities and maintenance personnel, and external suppliers.
- Assist with laboratory operations, including tracking department property, following all environmental and safety requirements, and developing required documentation.

Qualifications We Require

- Bachelors' degree in Engineering, Computer Science, or the Physical Sciences; or an Associates' degree in these fields with at least two years additional relevant experience;
- Experience using Commercial CAD software such as Solidworks or Pro-E
- Hands-on experience with complex mechanical components and systems

- Basic machine shop experience including use of lathes, mills, drill presses, etc.

Qualifications We Desire

- Advanced course work in engineering or the physical sciences
- Ability to assemble custom electronic control devices and cabling, troubleshoot existing equipment, and maintain simple LANs
- Ability to maintain basic laboratory electrical and instrumentation systems that include devices such as flow valves, solenoids, pressure transducers, thermocouples, and gas analyzers
- Ability to hold a DOE L-level security clearance

About Our Team

The mission of Sandia/California's Engine Combustion Research Department is to develop the science base needed by industry to build and optimize a new generation of advanced, high-efficiency, clean internal-combustion (IC) engines that use both conventional and alternative fuels. The department is part of Sandia's Combustion Research Facility (CRF), where ~100 scientists, engineers, and technologists conduct basic and applied research to improve our nation's ability to use and control combustion processes efficiently and cleanly. The CRF offers a challenging and stimulating work environment that addresses today's most critical energy and environmental issues, as well as opportunities for personal, professional, and technical growth.

Position Information

This Limited Term Employee (LTE) position is a temporary position for one year term, which may be renewed at Sandia's discretion up to a maximum of seven years.

Individuals in LTE positions may bid on regular Sandia positions as internal candidates, and in some cases may be converted to regular career positions during their term if warranted by ongoing operational needs, continuing availability of funds, and satisfactory job performance.

About Sandia

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation, with teams of specialists focused on cutting-edge work in a broad array of areas. Some of the main reasons we love our jobs:

- Challenging work with amazing impact that contributes to security, peace, and freedom worldwide
- Extraordinary co-workers
- Some of the best tools, equipment, and research facilities in the world
- Career advancement and enrichment opportunities
- Flexible work arrangements for many positions include 9/80 (work 80 hours every two weeks, with every other Friday off) and 4/10 (work 4 ten-hour days each week) compressed workweeks, part-time work, and telecommuting (a mix of onsite work and working from home)
- Generous vacations, strong medical and other benefits, competitive 401k, learning opportunities, relocation assistance and amenities aimed at creating a solid work/life balance*

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<http://www.sandia.gov>

*These benefits vary by job classification.

Security Clearance

This position does not currently require a Department of Energy (DOE) security clearance.

Sandia will conduct a pre-employment drug test and background review that includes checks of personal references, credit, law enforcement records, and employment/education verifications. Furthermore, employees in New Mexico need to pass a U.S. Air Force background screen for access to Kirtland Air Force Base. Substance abuse or illegal drug use, falsification of information, criminal activity, serious misconduct or other indicators of untrustworthiness can cause access to be denied or terminated, resulting in the inability to perform the duties assigned and subsequent termination of employment.

If hired without a clearance and it subsequently becomes necessary to obtain and maintain one for the position, or you bid on positions that require a clearance, a pre-processing background review may be conducted prior to a required federal background investigation. Applicants for a DOE security clearance need to be U.S. citizens. If you hold more than one citizenship (i.e., of the U.S. and another country), your ability to obtain a security clearance may be impacted.

Members of the workforce (MOWs) hired at Sandia who require uncleared access for greater than 179 days during their employment, are required to go through the Uncleared Personal Identity Verification (UPIV) process. Access includes physical and/or cyber (logical) access, as well as remote access to any NNSA information technology (IT) systems. UPIV requirements are not applicable to individuals who require a DOE personnel security clearance for the performance of their SNL employment or to foreign nationals. The UPIV process will include the completion of a USAccess Enrollment, SF-85 (Questionnaire for Non-Sensitive Positions) and OF-306 (Declaration of for Federal Employment). An unfavorable UPIV determination will result in immediate retrieval of the SNL issued badge, removal of cyber (logical) access and/or removal from SNL subcontract. All MOWs may appeal the unfavorable UPIV determination to DOE/NNSA immediately. If the appeal is unsuccessful, the MOW may try to go through the UPIV process one year after the decision date.

EEO

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, or veteran status and any other protected class under state or federal law.