Position Title: Engineering Equipment Technician
Job Bulletin Number: 103313
Classification: Equipment Technician III, Specialized Equipment
Department: School of Engineering
Full/Part-time: Full-time
Employment Type: Probationary/Permanent
Bargaining Unit: CSUEU, Unit 9
Pay Plan: 12 month
Salary Range: $4,107 - $7,430 per month. Hiring salary anticipated to be $5,000 - $5,700 per month commensurate with experience.

Benefits:
Premium benefit package includes outstanding health, dental and vision plans; life and disability insurances; pension (CalPERS); tuition fee waiver; and 14 paid holidays per year. See our benefits website for additional information.

Pre-Employment Conditions:
Background including DMV records check

Closing Date: Open until filled. A review of applications will begin Friday, November 12, 2021 and the review period may end any time thereafter.

**HOW TO APPLY:** Interested parties should submit the Cal Maritime Employment Application, a cover letter and resume. Apply on-line at [http://www.csum.edu/web/hr/careers](http://www.csum.edu/web/hr/careers).

**ABOUT THE CALIFORNIA STATE UNIVERSITY MARITIME ACADEMY:**
Established in 1929, California State University Maritime Academy, a campus of the California State University, is the only degree-granting maritime academy on the West Coast. Located on a scenic waterfront site in Vallejo, the campus serves a student population of approximately 1100 undergraduates and 50 graduate students. The campus currently offers undergraduate degrees in Mechanical Engineering, Facilities Engineering Technology, Marine Engineering Technology, Marine Transportation, Global and Maritime Studies, and Business Administration. A master's degree in Transportation and Engineering Management is offered as well as a number of extended learning programs and courses.
POSITION SUMMARY:
The Equipment Technician participates in the testing, maintenance, and repair of engineering laboratory equipment as needed. Performs maintenance in equipment used in classes and student learning as needed or instructed by supervisor.

MAJOR RESPONSIBILITIES:
Laboratory Equipment Technician – supports academic effort in engineering laboratories with repair, updates and operation of equipment

- Obtain and maintain an Environmental Protection Agency (EPA) refrigeration license (Unlimited) authorizing the employee to purchase, use and store EPA regulated refrigerants.
- Maintain and support the operation of gas turbine and steam turbine, diesel and gasoline internal combustion engines.
- Install, maintain/calibrate and operate the Engine Exhaust Gas Analyzer and maintain consumables for its operation.
- Maintain appropriate fuel(s) level and other consumables to support the use of the engineering laboratories.
- Purchase and ensure proper storage and organization of chemicals and consumables used in the chemistry lab.
- Maintain all current Safety Data Sheets (SDS) and store in a location available and viewable to the users of the engineering, physics and chemistry laboratories.
- Build, repair, store and maintain the equipment/apparatus used in the physics lab and purchase/organize consumables.
- Install and repair the electronic test equipment used in the electronics and motors lab and purchase/organize consumables.
- Design, build and install lab equipment used in the shipboard engineering lab.
- Design, assemble and maintain test stands used in the machines lab, interface test motors, power supplies and meters.
- Repair, maintain and calibrate the equipment used in the Materials lab and purchase/store/install consumables.
- Repair or modify welding lab equipment to keep equipment safe and up to date.
- Repair and maintain equipment in science labs.
- Work with faculty and the instructional support technician in identifying and addressing equipment maintenance, calibration and installation to support instructional needs in the engineering curriculum and on the ship, as instructed by the Dean of Engineering.
- Driving to pick up and deliver components and equipment necessary for instructional facilities’ and infrastructure support.

Student Assistant Direction
In conjunction with the Instructional Support Technician:
- Develop and maintain current job descriptions for student assistants for the welding lab and the machine shop.
- Train student assistants to set-up, use and store machine shop equipment.
- Train and monitor student assistants on proper safety standards and proper use of personal safety equipment (PSE).

Welding Lab and Machine Shop Safety Coordination
In conjunction with the Instructional Support Technician:
- Monitor machine shop and welding lab to maintain a clean and safe working environment.
- Note deficiencies and recommend changes to keep up to date with industry standards.
- Maintain emergency first aid locations and report deficiencies.
- Monitor safe practices with regard to maintenance and operation of the welding lab and machine shop equipment.
- Require all users of hand tools and machinery to have proper training and demonstrated competency before use.
REQUIRED QUALIFICATIONS:
Experience:
- Equivalent to three years of progressively responsible journey-level or skilled experience in the maintenance, repair and operation of scientific or technical equipment in the specialty area to which assigned, including one year involving design modifications and fabrication of complex and highly technical equipment.
- Equivalent to two years of semi-skilled experience maintaining and repairing scientific or technical equipment or related equipment experience as part of instructional support activities may be substituted for one year of the required experience.
- Equivalent to two years of trade school or technical arts training with specialization in the type of equipment repair to which assigned, completion of an apprenticeship program, or completion of a full military specialization in the required type of equipment maintenance and repair may be substituted for one year of the required experience.

Knowledge, Skills and Abilities:
- Comprehensive knowledge of the methods, materials, tools and equipment used in the construction, installation, maintenance, repair and operation of electrical, electronic, electro-mechanical and mechanical equipment in the engineering laboratories.
- Thorough knowledge of equipment design theory
- Knowledge of graphic communication tools and standards
- Thorough knowledge of repair, maintenance, troubleshooting, upgrading and overhaul.
- Knowledge of EPA standards for purchasing, handling, shipping, and storage of refrigerants.
- Ability to apply previous experience and knowledge to the design of new applications.
- Ability to plan, organize, and coordinate the work of technical projects.
- Ability to review and prepare specifications for technical equipment.
- Ability to design, fabricate, and assemble devices.
- Ability to coordinate equipment repair performed by other specialists.
- Ability to analyze equipment problems and determine what repairs are needed.
- Ability to install, replace, repair, and maintain a wide variety of equipment for the area of job assignment.
- Ability to establish and maintain cooperative working relationships.
- Ability to read and write at a level appropriate to the duties of the position.
- Ability to make arithmetic computations where required.
- Ability to utilize industry standard techniques and equipment to maintain required level of service in instructional laboratories.

Other: Must maintain a valid California Driver’s license.

PREFERRED QUALIFICATIONS:
- Fabrication, construction and wiring abilities
- Ability to use electronic testing equipment, hand and power tools.
- An AA degree in technology or engineering in an appropriate field.

SPECIAL CONDITIONS:

PHYSICAL, MENTAL and ENVIRONMENTAL CONDITIONS:
- Up to 40% of the activities involve sitting, standing, squatting, kneeling or walking; involves lifting heavy weight objects limited to 50 pounds; may involve pushing and pulling objects within the weight limits.
- On the job, the employee is exposed to excessive noise; marked changes in temperature and/or humidity; dust, fumes, gases, radiation, microwave (circle); is around moving machinery and drives motorized equipment.
- On the job, the employee will use an air purifying respirator to perform certain job functions.

BACKGROUND CHECK: A background check (including a criminal records check and DMV records check) must be satisfactorily completed before any candidate can be offered a position with the CSU. Failure to satisfactorily
complete the background check may affect the application status of applicants or continued employment of current CSU employees who apply for the position.

**DESIGNATED POSITION:** This position is a “designated position” in the California State University’s Conflict of Interest Code. The successful candidate accepting this position is required to file Conflict of Interest forms subject to the regulations of the Fair Political Practices Commission.

**ELIGIBILITY TO WORK:** Applicants must provide proof of U.S. citizenship or authorization to work in the United States within three days of the date of hire.

*Equal Opportunity Employer/Minorities/Females/Veterans/Individuals with a Disability*