



BOISE STATE UNIVERSITY

Job Standard for Engineering Technician, Experimental Systems

Employee Name:

Employee ID:

Employee PCN:

How to use this Job Standard:

1. Click “View in Google Docs/Download” and download to Word.
2. The Job Overview, Level Scope, Minimum Qualifications and Essential Job Functions are specific to this job's competencies and cannot be edited.
3. For the Job Posting you may;
 - a. update/change the purpose to add in department specific information,
 - b. add key responsibilities to the 35% of the time, specific to your department needs,
 - c. add a preferred qualifications section
 - d. post the position using the business title

The statements on this job standard are intended to describe the general nature of the role and level of work being performed. They are not intended to represent an exhaustive list of all responsibilities, duties and skills required of the employee.

Engineering Technician, Experimental Systems Overview

- Person Group: Classified
- Job Code: 03645
- Pay Grade: I
- FLSA Status: Non-Exempt
- Career Level: Level 2
- Family: Research
- Function: Research/Lab Support

Purpose

To build, modify, and maintain scientific, laboratory and prototype equipment used in engineering instruction and research; instruct engineering students in fundamentals of manufacturing processes of machining and welding; perform related work.

Level Scope

Applies skills and job knowledge in area of specialization; may adapt procedures, operations, techniques, tools, materials, and/or equipment to meet needs of area of specialization; may work on non-routine tasks; resolves issues/makes working decisions within area of specialization or responsibility with minimal supervision.

Minimum Qualifications

Considerable knowledge of: mechanical systems; metal working techniques and practices.

Good knowledge of: hydraulic systems.

Some knowledge of: electrical systems.

Experience: using MIG and TIG techniques to weld aluminum and stick welding techniques to weld stainless steel and mild steel; reading and interpreting engineering drawings.

Physical ability to: bend, stoop and lift items weighing up to 50 pounds overhead.

Knowledge, Skills, and Abilities

- Knowledge of the practical application of engineering science and technology
- Operation monitoring; watch gauges, dials, or other indicators to make sure a machine is working properly
- Ability to understand information and ideas and present to others

Essential Functions

Key Responsibilities

60% of Time the Engineering Technician, Experimental Systems must:

- Uses drawings, specifications, and oral directions to design, fabricate, modify and repair scientific, laboratory and prototype research equipment such as hydraulic test loops, and mechanical and hydraulic testing and measuring equipment; estimates needs and costs, procures equipment, supplies and materials for projects and laboratory classes; fabricates test specimens; maintains, repairs, and renovates shop machine tools and measuring equipment; implements safe shop procedures; maintains shop inventory; operates and maintains MIG, TIG and wire welders, and lathes, vertical/horizontal mills, drills, grinders, oxyacetylene torches, saws, planers, and presses.

- Directs students in the preparation of testing materials; prepares and conducts individual and group classes in welding and metal machining; fabricates and repairs research and instructional scientific hardware, equipment and instrumentation; acts as technical liaison between faculty, university and contractors.

35% of Time the Engineering Technician, Experimental Systems

Determined by department needs

5% of Time the Engineering Technician, Experimental Systems

Perform other duties as assigned

Work Environment and Physical Demands

Physical ability to: bend, stoop and lift items weighing up to 50 pounds overhead.

Travel Requirement

Not applicable for Engineering Technician, Experimental Systems

Career Path

Engineering Assistant, other professional positions

Additional training/education or equivalent experience, as well as business need, are required for movement into higher level jobs.

Disclaimer

Incumbent must perform the essential duties and responsibilities with or without reasonable accommodation. The above statements are intended to describe the general nature and level of work. Final employment offers are contingent upon a Final Candidate's successful completion of a Background Verification, and a determination by the University that the information derived from the Background Verification does not disqualify the individual. In addition, a Financial History Check and Motor Vehicle Record (MVR) Check may be required.