

ENGINEERING TECHNOLOGIST I 3291

ENGINEERING TECHNOLOGIST II 3292

ENGINEERING TECHNOLOGIST III 3293

ENGINEERING TECHNOLOGIST IV 3294

NATURE OF WORK

This is skilled work in the installation, operation, maintenance, calibration, design, construction and modification of electronic, mechanical and electromechanical equipment and testing apparatus required for teaching and research purposes.

Employees of this class perform or supervise activities in the installation, operation, calibration and maintenance of scientific and laboratory equipment for a laboratory teaching program. Work also includes instructional and research activities associated with departmental undergraduate and graduate programs. Supervision may be exercised over trainees and/or subordinate technical staff. Work is reviewed through discussion and observation of results.

ILLUSTRATIVE EXAMPLES OF WORK

Installs, tests, calibrates and maintains a variety of engineering laboratory equipment in the fields of civil, mechanical, electronics, electrical, ocean, shipbuilding and related engineering disciplines.

Designs and constructs sophisticated engineering instruments and apparatus; assists students and researchers in the setting up and utilization of equipment; assembles and disassembles test models.

Sets up apparatus and equipment for laboratory sessions; prepares test samples, as required; provide assistance by demonstrating proper use of laboratory apparatus to students; may conduct standard laboratory tests.

Plans, directs and coordinates the general activities of one or a number of laboratories providing support for teaching, research or related purposes; directs and coordinates the work of technical personnel; drafts and maintains policies and procedures as pertained to work schedules and staff rotation; oversees and maintains staff levels in accordance with workloads of various laboratories.

Participates in the interview and appointment of technical personnel; provides instruction to subordinates; prepares and maintains work schedules; evaluates performance of subordinates and equipment; performs other personnel management duties.

Interprets drawings, oral and/or written proposals; charts work progress, maintains records and quality controls; prepares and maintains laboratory budget; selects and orders equipment and supplies.

Operate, use and maintain lab equipment and tools related to the work and applies methods, procedures and special techniques.

Maintain up-to-date technical and commercial information in ready reference for users.

Maintains work area in neat and orderly condition.

Perform related work as required.

REQUIREMENTS OF WORK

The minimum requirements for entry into this series is experience in the field of assignment; graduation from high school supplemented by the successful completion of an approved technology program in the field of assignment; or any equivalent combination of experience and training which provides the following knowledges, abilities and skills:

Knowledge of standard practices, methods and procedures in the field of assignment.

Knowledge of equipment, instruments and systems in the area of assignment.

Knowledge of the hazards and the safety precautions involved in the work.

Ability to work from schematic drawings, specifications and oral or written instructions and to exercise judgment in determining the techniques and methods.

Ability to establish and maintain effective working relationships with faculty members, students, staff, managers and research personnel.

Skill in the care and use of test equipment and tools common to the area of assignment.

At higher levels, an increasing degree of experience and formal training is required.

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