

CLASSIFICATION: ENGINEERING TECHNICIAN III

Class Code: 4087-16

Date Established: 07-02-65

Occupational Code: 9-2-4

Date of Last Revision: 07-07-08

Exempt Status: Non-Exempt

BASIC PURPOSE: To perform and assist in supervising technical engineering duties in a designated area, including field and laboratory testing, Environmental studies, design and construction.

CHARACTERISTIC DUTIES AND RESPONSIBILITIES:

- Supervises and instructs subordinate Engineering Technicians and Aides.
- Inspects engineering projects to determine compliance with plans and specifications; recommends design changes in the field as required.
- Supervises private contractors in the execution of various state contracts.
- Assists a professional engineer in performing staff work, such as collection of data and maintenance of records as required by the agency.
- Performs environmental studies, field and laboratory tests and maintains accurate records of test results.
- Prepares engineering plans and drawings based on on-site observation and technical data.
- Prepares engineering or environmental reports for use in decision making by agency administrators or engineers.
- Estimates and computes quantity and cost of project materials required for a designated engineering project.

DISTINGUISHING FACTORS:

Skill: Requires skill in recommending routine changes in standardized operating procedures OR in retrieving, compiling and reporting data according to established procedures OR in operating complex machines.

Knowledge: Requires knowledge of business practices and procedures or technical training in a craft or trade, including working from detailed instructions, to apply knowledge in a variety of practical situations.

Impact: Requires responsibility for contributing to immediate, ongoing agency objectives by facilitating the direct provision of services to the public or other state agencies. Errors at this level result in inaccurate reports or invalid test results and require significant investment of time and resources to detect.

Supervision: Requires direct supervision of other employees doing work which is related or similar to the supervisor, including scheduling work, recommending leave, reviewing work for accuracy, performance appraisal, or interviewing applicants for position vacancies.

Working Conditions: Requires performing regular job functions in an environment which includes exposure to continuous physical elements or a number of disagreeable working conditions with frequent exposure to minor injuries or health hazards.

Physical Demands: Requires medium work, including continuous strenuous activities such as frequent reaching, bending, or lifting as well as performing work activities which require fine manual dexterity or coordination in operating machines or equipment.

Communication: Requires explaining facts, interpreting situations, or advising individuals of alternative or appropriate courses of action. This level also requires interviewing or eliciting information from state employees or members of the general public.

Complexity: Requires a combination of job functions to establish facts, to draw daily operational conclusions, or to solve practical problems. This level also requires providing a variety of alternative solutions where only limited standardization exists.

Independent Action: Requires a range of choice in applying a number of technical or administrative policies under general direction and in making routine decisions or in recommending modifications in work procedures for approval by supervisor.

MINIMUM QUALIFICATIONS:

MINIMUM QUALIFICATIONS - DEPARTMENT OF TRANSPORTATION and DEPARTMENT OF ADMINISTRATIVE SERVICES, BUREAU OF PUBLIC WORKS DESIGN AND CONSTRUCTION:

Education: Associate's degree from a recognized college or technical institute with a major study in engineering, landscape, architecture, forestry, horticulture, environmental studies, agronomy, geology, soil science or earth science. Each additional year of approved formal education may be substituted for one year of required work experience.

Experience: Three years' experience as an Engineering Aide or Technician, two years of which shall have been at a level equivalent to Engineering Technician II. Each additional year of approved work experience may be substituted for one year of required formal education.

MINIMUM QUALIFICATIONS - DEPARTMENT OF ENVIRONMENTAL SERVICES:

Education: Associate's degree from a recognized college or technical institute with a major study in engineering, hydrology, geology, earth sciences, or environmental studies. Each additional year of approved formal education may be substituted for one year of required work experience.

Experience: Three years of engineering experience, two years of which shall have been at a level equivalent to Engineering Technician II. Each additional year of approved work experience may be substituted for one year of required formal education.

License/Certification: Valid driver's license and access to transportation if required for performing engineering field work. Any additional license requirement must be stated on the supplemental job description and approved by the Division of Personnel prior to posting at the agency level.

RECOMMENDED WORK TRAITS: Extensive knowledge of engineering techniques at a pre-professional level, but requiring possession of a sufficient level of knowledge of trigonometry and algebra to perform complicated mathematical computations. Extensive knowledge of material testing and designing of highways. Knowledge of environmental issues and regulations. Skill in the use of drafting and computing instruments and testing equipment. Ability to make complex drawings, tracings and technical mathematical computations. Ability to perform difficult laboratory tests, assume inspectional responsibilities in the field, train and supervise subordinate personnel and maintain accurate records. Ability to establish and maintain effective working relationships with other employees, federal authorities and the general public. Must be willing to maintain appearance appropriate to assigned duties and responsibilities as determined by the agency appointing authority.

DISCLAIMER STATEMENT: This class specification is descriptive of general duties and is not intended to list every specific function of this class title.