

SNOHOMISH COUNTY JOB DESCRIPTION

ENGINEERING TECHNICIAN IV-MATERIALS LAB

Spec No. 3061

BASIC FUNCTION

Performs skilled materials testing, construction inspection, drilling operation and related technical engineering assignments. The focus of this position is the field and laboratory work.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Performs materials sampling and testing in both the field and in the lab using specialized equipment and standard testing methods; prepares test reports/forms, evaluates test results for conformance with applicable specifications, and provides appropriate observations and documentation; operates geotechnical instrumentation equipment; acts on behalf of materials lab lead in his/her absence.
2. Operates and maintains a soil sampling drill rig used to perform geotechnical and environmental investigations and prepares boring logs.

STATEMENT OF OTHER JOB DUTIES

3. Performs related duties as required.

MINIMUM QUALIFICATIONS

Graduation from a two-year accredited program in civil engineering, civil engineering technology, geology or related field; AND, two (2) years of field or office experience in materials testing; OR, a Washington State Resource Protection Well Operator License, AND two (2) years of field or office experience in materials testing or drilling; OR, any equivalent combination of training and/or experience which provides the required knowledge and ability necessary to perform the work. Must pass job related tests.

SPECIAL REQUIREMENTS

A valid Washington State Driver's License is required for employment.

Certification of completion of a 40-hour OSHA 29 CFR 1910.120 certified Health & Safety Program is required, OR, ability to obtain within 6 months.

Ability to obtain a nuclear density gauge license within 6 months.

A Washington State Resource Protection Well Operator License is preferred and may be required.

KNOWLEDGE AND ABILITIES

Knowledge of:

- principles and practices of construction material testing, including testing of concrete, soil and asphalt

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KNOWLEDGE AND ABILITIES (Continued)

Knowledge of:

- principles, practices, techniques and instruments related to geotechnical and environmental sciences
- mathematics, algebra and geometry
- codes, regulations and standards applicable to area of assignment
- current regulations and standards, in the area of specialization

Ability to:

- interpret engineering plans and specifications
- use and maintain instruments and equipment used in area of assignment
- communicate effectively with engineers, contractors, developers, staff members and the general public
- work independently and organize workload
- lead, train, and review the work of other employees
- prepare technical calculations necessary for design and construction projects

SUPERVISION

Employees report to a technical or professional supervisor or lead as assigned. Employee may serve as a lead worker and be responsible for coordinating the work of other employees. Work is performed independently or as a member of a crew. Work is reviewed in progress or upon completion for accuracy and adherence to engineering standards.

WORKING CONDITIONS

Work is performed in the office or in the field in varying weather conditions. The employee is also exposed to a variety of conditions such as: working in trenches, excavations, and on steep slopes, uneven terrain and slippery surfaces. Physical hazards from traffic and construction equipment at the work site may be present. An adequate sense of smell is required for detecting contaminated environments. Must be able to lift objects weighing fifty (50) pounds or more.

Snohomish County is an Equal Employment Opportunity (EEO) employer.
Accommodations for individuals with disabilities are provided upon request.

[EEO policy and ADA notice](#)

Class Established: April 1994

Previous Spec No. 420448

Revised: January 2002, March 2015, April 2017

EEO Category: 3 - Technicians

Pay Grade: 238 - Classified Pay Plan

Workers Comp: 1501 Hazardous