

SNOHOMISH COUNTY JOB DESCRIPTION
ENGINEERING TECHNICIAN III - MATERIALS LAB

Spec No. 3052

BASIC FUNCTION

Performs skilled materials testing, construction inspection, drilling operation and related technical engineering assignments. Focus of this position is laboratory and field 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.
2. Operates geotechnical instrumentation equipment.
3. Assists in the operation and maintenance of a soil sampling drill rig used to perform geotechnical and environmental investigations, and prepares soil boring logs.
4. Performs related duties as required.

MINIMUM QUALIFICATIONS

One (1) year of vocational or college courses in civil engineering, engineering technology, geology or related field; AND, two (2) years of related field or office experience in materials testing; OR, a Resource Protection Well Operator License, AND one (1) year of field or office experience in materials testing or drilling; OR, any equivalent combination of training and/or experience which provides for 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.

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

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.

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

KNOWLEDGE AND ABILITIES

Knowledge of:

- principles and practices of material testing, including testing of concrete, soil and asphalt
- principles, practices, techniques and instruments related to geotechnical and environmental sciences

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KNOWLEDGE AND ABILITIES (Continued)

Knowledge of:

- 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
- prepare clear and concise written reports

SUPERVISION

Work is assigned, scheduled, and supervised by a technical or professional supervisor or lead who reviews results to ensure adherence to instructions and conformance with established departmental and 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, slopes, excavations, and on uneven terrain and slippery surfaces. Physical hazard from traffic and construction equipment at the work site may be present. Physical exertion may be required 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: May 1994
Previous Spec No. 420449
Revised: April 2002, March 2015, April 2017
EEO Category: 3 - Technicians
Pay Grade: 237 - Classified Pay Plan
Workers Comp: 1501 Hazardous