

SNOHOMISH COUNTY JOB DESCRIPTION

ENGINEERING TECHNICIAN III

Spec No. 3048

BASIC FUNCTION

To perform skilled surveying, construction inspection, drafting, or related technical engineering assignments.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Performs entry level surveying work such as setting cones, flagging traffic, setting stakes and cutting brush; generally serves on a temporary basis.
2. Assists project engineers by drafting and calculating field notes to document quantities, alignment, grade and locations according to project plans; assists engineers with technical report writing and exhibit preparation.
3. Inspects road, bridge and other public works maintenance and construction projects to insure contractor compliance with project plans, specifications and related documents; inspects job sites, performs materials tests and prepares inspection reports and project documentation.
4. Drafting of sketches, drawings, and/or plans for use in design work and supplemental documentation for road and/or surface water projects and to identify structural problems. Most drafting will require the use of Computer Aided Design (CAD) software.
5. Assist in development of design and construction plans using CAD; adheres to CAD design standards.
6. Calculates load capacity of bridges from structural components such as pilings, decking and trusses.
7. Provides information and responds to inquiries from contractors, property owners, county staff and the general public regarding assigned public works projects.
8. Reads and interprets plans and specifications and makes recommendations based on findings
9. Uses computer for time management, project tracking, drafting, and other tasks depending on area of assignment.

STATEMENT OF OTHER DUTIES

10. May lead the work of lower classified technicians relating to assigned projects or in supervisor's absence.
11. May perform work activities related to traffic operations (data collection, analysis, and organization; database maintenance; surface evaluation of roadways; roadway inventory; and installation and removal of traffic counters).

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STATEMENT OF OTHER DUTIES (Continued)

12. Performs related duties as required.

MINIMUM QUALIFICATIONS

One (1) year of vocational or college courses in engineering technology; and two (2) years of related field or office experience in civil engineering; OR, any equivalent combination of education and/or experience which provides the skills, 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.

A valid Flagging and Traffic Control card may be required for some positions, within 2 months of employment.

Experience using CAD software may be required for some positions.

KNOWLEDGE AND ABILITIES

Knowledge of:

- principles and practices of engineering and surveying
- principles, practices, techniques and instruments related to area of assignment
- mathematics, algebra, geometry, and trigonometry
- personal computer and job-related software usage: Depending on area of assignment, software may include word processing, spreadsheet, database, AutoCAD, ArcG.I.S., or similar

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 public
- work independently and organize workload
- lead, train, and review the work of other employees
- prepare clear and concise written reports

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SUPERVISION

The work is assigned, scheduled, and supervised by a technical or professional supervisor who reviews results to insure adherence to instructions and conformance with established departmental and engineering standards.

WORKING CONDITIONS

The work is performed in the office or in the field in varying weather conditions. Physical hazard from traffic and construction equipment at the work site may be present. Physical exertion may be required to lift equipment in excess of fifty (50) pounds.

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: 1980
Previous Spec No. 420402
Revised and Re-titled: April 1992
Revised: August 2004, September 2018
EEO Category: 3 - Technicians
Pay Grade: 237 - Classified Pay Plan
Workers Comp: 1501 Hazardous