

SNOHOMISH COUNTY JOB DESCRIPTION

ENGINEERING TECHNICIAN II

Spec No. 3042

BASIC FUNCTION

To perform drafting, surveying, construction inspection, engineering data collection, or related field and office assignments requiring basic surveying or technical engineering skills.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Performs the drafting and layout of right-of-way and construction plans, exhibits, displays, and maps to detail county road and bridge improvements.
2. Verifies or calculates quantities, acreage and square footage from construction plans or field notes.
3. Operates rod and chain on a survey crew; sets chaining points and gives backsites; places and positions stadia rods and sets stakes and hubs as instructed; sets tripods, targets, reflectors, monuments, position signs and equipment.
4. Cuts and clears brush on a survey crew; carries and assists in setting up survey equipment; flags crew; marks stakes to indicate proper stationing, line and grade.
5. Compiles traffic-related data by measuring and diagramming traffic patterns, speed and traffic counts; uses radar guns, mechanical traffic counters or performs manual counts on a regular schedule or as requested by engineering staff.
6. Organizes and inputs engineering field and office data on computer.
7. Assists engineers in researching property ownership's, deeds, recorded surveys or related documents in the Assessor's and Auditors Offices.
8. Assists higher level technicians in inspecting contract construction by taking material samples and performing routine density tests.
9. Maintains inventory of all county maintained roads by updating information on road lengths, widths, surfaces, and shoulders; updates maps to reflect additions or changes to roads or city limits.
10. Provides general information and assistance to the public related to area of assignment.
11. Receives and records bid tabulations for road projects.
12. Organizes and updates procedure manuals and project files.

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STATEMENT OF OTHER JOB DUTIES

13. May periodically perform a variety of higher level technician duties for training purposes.
14. Performs related duties as required.

MINIMUM QUALIFICATIONS

One (1) year of vocational or college courses in engineering technology, and one (1) year of related field or office experience in civil engineering. Work related experience may be substituted for the required education on the basis of one (1) year of experience equals two (2) years of education or training. Must pass job related tests

SPECIAL REQUIREMENTS

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

KNOWLEDGE AND ABILITIES

Knowledge of:

- geometry, algebra and trigonometry; elementary engineering principles and practices, materials and equipment used in the area of specialization

Ability to:

- interpret engineering plans and specifications
- understand and execute oral and written instructions
- use and maintain equipment and instruments employed in the area of assignment
- deal tactfully and courteously with the public
- prepare and organize field and office records and reports
- operate a personal computer

SUPERVISION

Employee will report to an Engineer as assigned. The work is fairly routine and is performed under general supervision with intermittent review of work performance to ensure compliance with work orders and assignments. Specific instructions will be given for unusual or non-routine tasks.

WORKING CONDITIONS

Work is performed in the office.

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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. 420401

Revised: March 1986, March 1993 and March 2003

EEO Category: 3 - Technicians

Pay Grade: 234 - Classified Pay Plan

Workers Comp: 1501 Hazardous