

SNOHOMISH COUNTY JOB DESCRIPTION

ENGINEERING TECHNICIAN IV-TECHNICAL RESOURCES

Spec No. 3062

BASIC FUNCTION

Lead Engineering Technician that works in a Technical Resource Pool, utilizing a CADD station for journey level drafting, entry level design and technical calculations for design reports, right-of-way plans, and construction plans for Public Works road and bridge projects.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Utilizes CADD station for journey level drafting and technical design calculations for design reports, right-of-way plans, road and bridge construction plans, and structural details for Public Works projects.
2. Performs civil/structural engineering calculations.
3. Provides civil/structural engineering technical information and recommendations regarding road and bridge design projects, through scoping meetings and plan reviews.
4. Serves in a technical pool associated with a design team.

STATEMENT OF OTHER JOB DUTIES

5. May perform skilled personal computer hardware/software support to Design/Construction including troubleshooting, tutoring and coordination with Snohomish County Department of Information Services.
6. Performs related duties as required.

MINIMUM QUALIFICATIONS

Graduation from a two-year vocational or college accredited course in civil/structural engineering technology and two (2) years CADD experience in preparation of road and bridge plans and related technical drawings; OR, three (3) years CADD experience in preparation of road and bridge plans and related technical drawings. Must pass job related tests.

SPECIAL REQUIREMENTS

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

Two thousand (2,000) minimum hours using AutoCAD drafting and soft desk civil design software (or equivalent) may be required for some positions.

One (1) year experience working in personal computer management support may be required for some positions.

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KNOWLEDGE AND ABILITIES

Knowledge of:

- geometry, algebra and trigonometry
- engineering principles and practices
- reading and interpreting engineering plans and specification
- "journey level" civil/structural drafting and related calculations
- The CADD station as a drafting/design tool
- creating clear concise graphic displays and exhibits for meeting and reports
- operating systems and other software
- the practical application of computer operations procedures
- development and compliance with standards and guidelines

Ability to:

- communicate effectively
- look at issues, gather facts, and present options
- adapt to changing priorities and technology
- be personally motivated to perform quality work
- work as a vital team member and serve as lead technician, responsible at times for coordinating the work of other employees
- contribute creative and innovative ideas to solve problems and meet goals
- provide consistent and accurate technical support to a variety of individuals and groups
- operate computers
- understand and apply knowledge of user needs to develop computer applications from existing software
- train others in the use of computer equipment
- analyze and resolve operational problems and help others solve problems
- prepare clear and concise written reports

SUPERVISION

Employee reports to a technical or professional supervisor as assigned. Employee serves as a lead worker and is responsible for coordinating the work of other employees. Work is performed independently or as a member of team. Work is reviewed in progress or upon completion for accuracy and adherence to division engineering standards.

WORKING CONDITIONS

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.

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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: October 1993

Previous Spec No. 420441

Revised: July 1994

EEO Category: 8 - Service Maintenance

Pay Grade: 238 - Classified Pay Plan

Workers Comp: 1501 Hazardous