

SNOHOMISH COUNTY JOB DESCRIPTION

ENGINEER II - DESIGN

Spec No. 3032

BASIC FUNCTION

Perform a variety of advanced engineering assignments in the design of Public Works projects. Tasks include design of roadways, bridges, drainage systems, including preparation of plans, design reports and drainage reports.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Design of road and bridge improvements or other public works construction projects, including preparing or overseeing the preparation of plans, specifications, and quantity and cost estimates.
2. Conducts or directs the preparation of studies and preliminary field surveys in preparation for design and construction of public works facilities such as roadways, bridges, solid waste sites, or drainage improvements.
3. Prepares project prospectus for applications for federal and state funding of public works projects, including the recommendations for improvements, estimates of required quantities, project cost estimates, and other relevant data.
4. Responsible for preparation of right-of-way plans in order to acquire land for public works facilities; determines project requirements for right of way acquisition.
5. Attends public meetings and formal public hearings on proposed county construction projects; prepares or supervises the preparation of maps, exhibits, drawings, charts and graphs and provides technical testimony as required.
6. Prepares and reviews technical reports related to engineering assignments, including the areas of hydrology, hydraulics, traffic capacity, signal design, roadway geometrics, and roadway structure design.

STATEMENT OF OTHER JOB DUTIES

7. Performs related duties as required.

MINIMUM QUALIFICATIONS

A Bachelor of Science degree in civil engineering or related field and two (2) years of professional civil engineering experience; OR, any equivalent combination of education and experience which provides the required knowledge, skill and ability to perform the work. A working knowledge of office-related and technical engineering computer software is preferred. Must pass job related tests.

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SPECIAL REQUIREMENTS

A valid Washington State Drivers License is required for employment.

An Engineer-in-Training certificate is required.

KNOWLEDGE AND ABILITIES

Knowledge of:

- principles, practices and techniques of engineering related to area of assignment
- federal, state and local laws, rules and regulations related to area of assignment
- the methods and techniques used in conducting engineering studies and needs assessments
- the literature, trends and developments in the area of specialty

Ability to:

- interpret and assess field data used for the design of construction projects
- prepare engineering plans, specifications and estimates
- allocate and make effective use of available resources
- assess the relative advantages and disadvantages of alternative courses of action
- read, interpret and apply federal, state and local laws, rules and regulations governing area of assignment
- establish and maintain effective working relationships with associates, subordinates, representatives of other agencies and with the general public
- communicate effectively, both orally and in writing; prepare a variety of correspondence, reports, and other written materials and documents
- utilize office related and technical engineering computer software

PHYSICAL REQUIREMENT

Physical requirements of the position include the ability to walk over rough terrain to inspect public works projects. Manual dexterity is required to operate the equipment utilized by the position and to generate reports.

SUPERVISION

Employees report to and receive direction from an engineering supervisor or designated lead engineer. The work requires considerable independent judgment and discretion in developing and achieving work unit goals and objectives.

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WORKING CONDITIONS

The work is performed in an office environment with occasional field trips to locations throughout the county to make site visits, attend meetings, or coordinate work activities. Meetings or project requirements may involve working evenings, weekends or holidays as necessary.

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: September 1993
Revised: July 1998, June 2003
EEO Category: 2 - Professionals
Pay Grade: 243 - Classified Pay Plan
Workers Comp: 1501 Hazardous