

SNOHOMISH COUNTY JOB DESCRIPTION

ENGINEER II-CONSTRUCTION

Spec No. 3031

BASIC FUNCTION

To perform a variety of professional engineering assignments in design and construction which require the application of standard engineering principles and methods; including geotechnical analysis in support of design of roadways, bridges and drainage systems; and materials inspection, testing and documentation. Assists Engineers III or IV, or coordinates the work of consultants or engineering staff as it relates to assigned engineering projects.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Provides project management of public works construction projects, including preparing or overseeing the preparation of specifications, cost and quantity estimates, the design of projects such as road and bridge improvements, and the oversight of the construction process.
2. Oversees project construction to assure work is performed in accordance with plans and specifications; monitors and coordinates construction-engineering activities, maintains field records, prepares progress estimates and change orders, develops budget projections and directs geotechnical/field technical personnel.
3. 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.
4. Directs the site inspections of construction work to verify quality of installations; and coordinate timely and quality completion for acceptance; monitors contractor progress and schedules quality assurance tests and materials approvals.
5. 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.
6. Researches, analyzes and resolves geotechnical/engineering problems on county construction projects.
7. Analyzes the environmental impact of proposed county projects and prepares required reports if impact is significant.
8. Prepares right-of-way plans in order to acquire land for public works facilities; researches ownership, project requirements, and writes legal descriptions to convey property.
9. Provides information to professional engineers, architects, developers, county officials and the general public; presents and explains technical design or operational features, project priorities and development requirements of county policies.

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STATEMENT OF ESSENTIAL JOB DUTIES (Continued)

10. Attends public meetings and formal public hearings on proposed county construction projects; prepares or supervises the preparation of maps, exhibits, drawings, charts/graphs, reports and provides technical testimony as required.
11. Coordinates and reviews the work of other engineering/geotechnical staff as it relates to assigned construction projects; provides training in related work as required.

STATEMENT OF OTHER JOB DUTIES

12. Prepares and reviews technical reports related to engineering assignments.
13. Performs other related duties as assigned.

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. Must pass job related tests.

SPECIAL REQUIREMENTS

An Engineer-in-Training certificate is required.

A valid Washington State Driver's License may be required.

For geotechnical positions; Haz-Mat 40-hour Certification is required within 6 months of employment.

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
- principles, practices and procedures associated with budget preparation and administration
- methods and techniques used in conducting engineering studies and needs assessments
- principles and practices of grant writing, contract negotiation and administration
- literature, trends and developments in the area of specialty

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KNOWLEDGE AND ABILITIES (Continued)

Ability to:

- interpret and assess field data used for the maintenance and design of construction projects
- prepare engineering plans, specifications and estimates
- direct and evaluate the inspection and appraisal of condition of public works structures
- allocate and make effective use of available resources
- assess the relative advantages and disadvantages of alternative courses of action
- gather, analyze, synthesize and evaluate a variety of data including statistical data
- read, interpret and apply federal, state and local laws, rules and regulations governing area of assignment
- analyze and evaluate operations and take effective action to correct deficiencies and resolve problems
- establish and maintain effective working relationships with elected officials, department heads, associates, subordinates, representatives of other agencies and with the general public
- prepare a variety of correspondence, reports, and other written materials and documents
- use effective communication skills to be able to be clearly understood by construction's client group in English
- prepare clear and concise written reports

PHYSICAL EFFORT

Physical exertion required to lift equipment more than fifty (50) pounds.

SUPERVISION

The work requires considerable independent judgment in developing and achieving work unit goals and objectives. The work is reviewed through meetings and periodic status reports, and by evaluation of results obtained.

WORKING CONDITIONS

The work is performed in an office environment or in the field in varying weather conditions with frequent field trips to locations throughout the county to make site visits, attends meetings, or coordinate work activities. Physical hazard from traffic and construction equipment at the work site may be present. 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](#)

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Class Established: April 1995
Previous Spec No. 420453
Revised: August 2006, August 2007
EEO Category: 2 - Professionals
Pay Grade: 243 - Classified Pay Plan
Workers Comp: 1501 Hazardous