



SPOKANE COUNTY
invites applications for the position of:

Engineer 1/2 - Environmental Programs of Public Works

SALARY: \$28.39 - \$36.65 Hourly
\$4,613.74 - \$5,954.92 Monthly
\$55,364.88 - \$71,459.04 Annually

OPENING DATE: 03/29/18

CLOSING DATE: 04/11/18 04:30 PM

DEPARTMENT: Public Works (formerly Engineering and Roads)

JOB SUMMARY:

NOTE: THIS VACANCY IS IN THE ENVIRONMENTAL PROGRAMS SECTION OF PUBLIC WORKS.

WHO MAY APPLY: This recruitment is open to all Public Works Guild members and all other applicants meeting the minimum requirements.

TOTAL COMPENSATION: \$70,867.04 - \$91,467.57 annually. Total compensation is an **estimate** based upon base compensation, median retirement fund contributions, and current employer-paid health and related benefit contribution rates (including medical, dental, life insurance, long term disability, and leave). The actual total will vary depending upon each employee's enrollment choices.

This is professional office and field engineering work in sections of Spokane County's Public Works Department and Environment Services Department.

EXAMPLES OF DUTIES:

ENGINEER 1:
Public Works Department
General Engineering:

Assists in: traffic studies, road design, bridge design, transportation engineering, road maintenance, safety programs, and construction management, as assigned. Conducts a variety of engineering analyses including: traffic capacity analyses, roadway design, bridge design, maintenance operations, project construction administration, traffic safety and operational analyses. Assists in preparing reports, testimony, and presentations on

engineering issues for presentations to community groups and at public hearings. Assists in the review of commercial and subdivision development projects. Reviews and analyzes commercial site and residential development road and drainage plans for compliance with County standards. Meets with and educates developers and consulting engineers on County road, sewer and drainage standards. Assists in the management of consultant services, supply and work project contracts. Prepares applications for federal and state grants for various projects. Responds to public questions in person, in writing and by phone; assists with other related work as required.

Stormwater Utility Section:

Assists in engineering work related to stormwater conveyance, treatment and disposal. Conducts a variety of engineering analyses such as hydrologic modeling, stormwater facilities design, stormwater maintenance requirements, and review of regional stormwater aspects of development projects. Confers with citizens and community groups. Manages special projects as assigned. Performs other related work as required.

Environmental Programs Section:

Assists in environmental programs, floodplain management, and water resource engineering related to the operation and maintenance of the Newman Lake Flood Control Zone District's (District) flood control facilities, aerator and alum injection systems and watershed management programs as assigned. Conducts a variety of engineering analyses including hydraulic and hydrologic modeling, floodplain modeling, and stream channel/road embankment bioengineering and culvert crossing design. Assists in the management of consultant services, supply and public work project contracts and general administration of the District. Prepares applications for federal and state grants for related projects. Reviews and analyzes commercial site and residential development plans for compliance with floodplain regulations. Assists with other related and departmental work as required.

Environmental Services Department

Sewer Planning and Design:

Assists in preliminary wastewater studies, pipeline design, pumping station design, hydraulic analysis, industrial pretreatment programs, financial studies, cost estimating, and construction management duties, as assigned. Conducts a variety of engineering analyses, such as hydraulic capacity determinations, conceptual and final designs, comparison of alternatives, solutions for sewer maintenance and operational problems, construction phase design revisions, and pay estimate reviews. Prepares reports including graphical presentations, and confers with citizens and community groups. Manages special projects as assigned. Reviews, organizes and analyzes information relevant to design problems and applies recognized engineering standards and practices to determine reasonable solutions. Performs other related work as required.

ENGINEER 2:

Public Works Department

General Engineering:

Performs work outlined in Engineer 1 above and: Directs and checks the work of technicians, consultants and lower level engineers preparing studies and plans, specifications, and estimates for contract documents. Reviews plans and studies to ensure compliance with local, state, and federal regulations; Manages technical aspects of projects, including computer modeling, data collection and monitoring. Resolves problems on failing systems, determines cause of failure and determines best approach to remedy problem. Evaluates complex and/or alternative design concepts for conformance to good

engineering practices. Plans and conducts workshops on engineering issues. Performs construction administration by supervising lower level engineer(s), supervises field inspectors, resolves construction contract conflict, and administers construction contracts. Represents the County Engineer at meetings with developers and consulting engineers. Performs other related duties as required.

Environmental Services Department

Sewer Planning and Design:

Performs a variety of complex design and analysis work in the wastewater field. Directs and checks the work of technicians and lower level engineers preparing construction plans, specifications, estimates, and contract documents. Reviews plans and studies to ensure compliance with local, state and federal wastewater regulations and standards. Manages technical aspects of projects, including hydraulic modeling, data collection, pipeline routing selections, specification writing, and coordination with other projects and agencies. Manages consultant contracts related to wastewater studies, design projects, and construction management. Prepares complete plans, specifications, and detailed cost estimates to facilitate the competitive bidding process. Investigates problems on existing wastewater systems, determines causes of problems, and determines reasonable solutions for implementation. Responds to public questions in person, in writing, and by telephone. Plans and conducts public informational meetings and workshops for wastewater projects. Performs other related duties as required.

MINIMUM REQUIREMENTS:

TRAINING AND EXPERIENCE:

Engineer 1: Graduation from an accredited engineering college with a degree in Engineering **or** possession of an Engineer-In-Training Certificate.

Engineer 2: Meet requirements for Engineer 1, and possesses a certification as a Professional Engineer in the State of Washington. Engineering certification from states with reciprocity with Washington will be accepted, provided that the incumbent applies for and receives a Washington Professional Engineering Certification within six (6) months of being classified as an Engineer 2.

LICENSE: Possession of a valid driver's license at the time of appointment.

SELECTION FACTORS:

Engineer 1:

Knowledge of:

- basic engineering principles and practices sufficient to perform the work.

Ability to:

- determine the kind of data required for a project, and to direct the activities of others in gathering the data.
- accurately analyze data and prepare technical reports and designs.
- communicate effectively both orally and in writing.
- maintain a good working relationship with property owners, general public, contracts, agencies and fellow workers.
- investigate field conditions and diagnose problems.

- organize work tasks to complete projects within established timetables.
- work with various computer programs: engineering models, word processing, database, spreadsheet, and various Geographic Information Systems applications.
- effectively manage projects through to completion and according to established deadlines.

Engineer 2:

Thorough Knowledge of the above, plus:

- complex engineering theories, principles and practices.
- Local, State and Federal Regulations

Ability to do the above, plus:

- research legal documents, codes and regulations.
- perform complex engineering work on studies, designs, construction management, and field operations.
- supervise the work on engineering projects, and to perform design and review work if required by the position.
- work effectively with only general supervision.

APPLICATIONS MUST BE FILED ONLINE AT:
<http://www.spokanecounty.org/employment>

Position #18-00098
 ENGINEER 1/2 - ENVIRONMENTAL PROGRAMS OF PUBLIC
 WORKS
 LW

824 N Adams
 Spokane, WA 99260
 509-477-5750

lwojtowicz@spokanecounty.org

Human Resources	Civil Service
(509) 477-5750	(509) 477-4711
hr@spokanecounty.org	cs@spokanecounty.org

Engineer 1/2 - Environmental Programs of Public Works Supplemental Questionnaire

- * 1. Are you a graduate from an accredited engineering college with a degree in Engineering; OR do you possess an Engineer-In-Training Certificate?
 - Yes
 - No

- * 2. ENGINEER 2: Do you possess a certification as a Professional Engineer in the State of Washington? (Engineering certification from states with reciprocity with Washington will be accepted, provided that the incumbent applies for and receives a Washington Professional Engineering Certification within six (6) months of being classified as an Engineer 2.)
 - Yes
 - No
 - No, however I have Engineering certification from states with reciprocity with Washington

* 3. Are you a member of Spokane County's Public Works Guild?

Yes No

* Required Question