



is seeking a qualified candidate to perform as an
Agriculture & Natural Resources Engineer

Position Overview

This position serves as an advanced member of a team of conservation professionals at the King Conservation District, a natural resource management special purpose district located in Renton WA. The position involves multi-faceted duties that require work in the office and the field; a high level of motivation, versatility, independence, and collaboration; and establishment and maintenance of partnerships with a wide range of landowners and conservation professionals to implement natural resource management practices on private and public property.

The individual holding this position provides program development, coordination, administration and technical services through the District's Engineering Program. This position is responsible for developing and coordinating all aspects of the Engineering Program and for expanding the funding base for engineering activities. Duties include providing engineering support to several District programs, including the Agricultural Program, Conservation Projects Program, Marine Shoreline Landowner Assistance Program, and Landowner Incentive Program; providing engineering support to District partners, including member jurisdictions, WRIA Watershed Forums, and non-profit organizations; providing on behalf of the District streamlined JARPA sponsorship of partner organization fish habitat enhancement projects; staffing and when applicable coordinating the District Program Development & Policy Subcommittee; and collaborating with the Board of Supervisors on District engineering program policies and priorities.

Examples of the types of work and projects coordinated by this position include providing engineering services to assist landowners with implementation of natural resource management practices detailed in District conservation plans and technical assistance documents; designing and implementing freshwater and marine aquatic area enhancement projects and fish passage projects; designing agricultural practices such as composting facilities, confinement areas, roof water runoff collection and diversion systems, sub-surface drains, livestock crossings, and manure lagoons; assisting urban, rural and agricultural landowners with drainage management projects to manage storm water runoff while protecting fisheries and water quality resources.

Essential Job Duties

The following list of duties is intended as an illustration of the various types of work performed. The omission of specific duties does not exclude them from the responsibilities of the position if the work is similar, related or a logical assignment to the position.

- Lead and direct the progress of District engineering projects to achieve District standards and goals, secure and manage the work of subcontracted engineers and other contractors as necessary, and coordinate the use of the area cluster engineer.
- Operate as the principal in managing engineering aspects of projects to include survey and design of projects; preparing and managing budgets; securing applicable regulatory permits; overseeing project implementation; evaluating and assessing the outcome/results of the projects; and preparing final reports and documenting project assessment.
- Operate as project manager, including preparing, advertising and securing contracted services, overseeing construction operations, ensuring timely completion of projects, managing budgets effectively, and ensuring proper completion of paperwork.
- Apply public contracting procedures; prepare and advertise appropriate bid solicitations, technical specifications and construction drawings.
- Maintain knowledge of and apply the best management practices as detailed in the NRCS eFOTG and local professional standards.
- Conduct and/or coordinate construction evaluations to ensure project specifications are met and in accordance with structural and regulatory standards.
- Conduct site visits and prepare Best Management Practice technical guidelines for landowners seeking cost-share funding through the District Landowner Incentive Program.
- Perform field assessments and surveys for District water quality protection and enhancement projects, fish and wildlife habitat enhancement projects, drainage management projects, and structural projects such as livestock waste storage facilities, sub-surface drains, livestock crossings, and clean water diversions and dispersions.
- Respond to and evaluate natural resource management problems, and develop action plans for how the District will assist landowners in resolving these problems.
- Evaluate and develop project alternatives and perform the analysis needed to produce projects that resolve natural resource management problems and contribute to overall environmental protection and/or enhancement goals.
- Develop and maintain potential natural resource enhancement projects with public and private cooperators, government entities and grant funding programs.
- Secure, develop, manage and close grant billed projects.
- Develop and maintain partnerships with other industry related organizations, governmental entities, and regulatory officials.
- Represent the District and serve on regional technical committees, inter-agency negotiations with user groups and other meetings as directed.
- Attend meetings in the King County watershed/WRIA arena and with local elected officials and staff as needed. Works cooperatively with staff from federal, state and county departments, tribes and member cities and others involved in watershed projects.
- Develop and manage program budgets and manage program activities to meet calendar year work plan objectives.
- Maintain all program records. Activities include establishing, retaining and updating all hard copy and electronic contract records and all documentation related to project activities.
- Develop and support District partnerships with other entities, agencies, organizations and groups involved in watershed restoration activities. Work collaboratively with a diverse

population, using educational concepts and values along with persuasive skills to present information to non-technical audiences.

- Share a vision and passion for natural resource management and conservation practices.
- Improve technical skills by maintaining professional certifications and attending training sessions and workshops.

Qualifications

- Bachelor's Degree in Engineering, with emphasis in natural resources, agricultural, hydrological, geological, ecological and/or environmental engineering.
- Must possess a professional engineer (PE) license within the State of Washington, or the ability to obtain at the next exam date or within 6 months of hire, whichever is earlier.
- Minimum of 8 years experience in managing engineering projects specific to natural resource management, agricultural practices, marine and freshwater aquatic area enhancement, and/or fisheries habitat enhancement. Prefer 8 to 12 years of experience with at least 6 of those years acquired since obtaining a P.E.
- Experience planning, designing, installing fish enhancement projects and/or fish passage projects.
- Experience using total stations and GPS to create accurate topographic surface models.
- Experience designing and preparing site maps and plans with AutoCAD Civil 3D.
- Experience using and managing GIS software and databases.
- Experience using GPS and post-processing software.
- Experience performing hydrological analyses using WWHM 4 or newer and familiar with SWMMWW and/or KC SWDM.
- Experience performing hydraulic analysis using HEC-RAS for the design or analysis of existing or new water crossing structures, open channel design, fish passage design and flood encroachment studies.
- Working knowledge of physical stream processes, e.g. hydraulics, channel configuration, geomorphology, etc.
- Knowledge or understanding of the biology of local fish species.
- Knowledge or understanding of Puget Sound watersheds, hydrology, geology, and planning and implementing aquatic area enhancement projects.
- Knowledge or understanding of agricultural land use practices, common rural and urban land use practices, and the resource management issues and challenges facing the region.
- Knowledge or understanding of forest health and land management principles.
- Knowledge or understanding of a broad range of soil and water conservation principles, techniques, methods and practices to apply and install conservation systems, which involve complex and diverse agricultural and other land uses.
- Knowledge or understanding of green stormwater infrastructure or low impact development stormwater management principles and design concepts.
- Knowledge or understanding of cultural resources assessments.
- Currently hold or can obtain a valid Washington State Drivers License.

- Use computers to write reports, track work products, prepare and record field and technical data. Proficient with computer programs such as Auto CAD, Arc GIS, and Microsoft Office Suite; knowledgeable of land survey practices; and have experience interpreting maps and aerial photography.
- Working knowledge of local, state and federal environmental regulatory programs and applying that knowledge to the design and permitting of water management, fish and wildlife habitat enhancement, steep slope management, shorelines management, forest health management, and freshwater and marine enhancement projects.

Essential Functions

- Work a minimum of one weekend and/or evening per month; work under tight deadlines and manage conflicting demands while successfully operating in an ever-changing work environment with minimal direction from supervisor.
- Communicate effectively and work cooperatively with District staff, landowners, and other stakeholders to produce high quality, cost-effective work products.
- Present program information in public settings and meetings; prepare clear, concise and informative written documents and reports; maintain thorough and organized records.
- Travel to various locations throughout King County and occasionally throughout the state.
- Apply appropriate safety practices in the field and in the office.
- Lift 40 pounds.

Annual Salary

\$69,000 - \$92,000 per year

Benefits

The District offers a comprehensive benefits package which includes paid leave (vacation, holiday, and sick), medical, dental, a nominal life insurance policy with the option to increase coverage at employee's expense, access to long term disability coverage at the employee's expense, and participation in the State of Washington's Retirement System (PERS).

To Apply

Submit a resume and a letter of interest outlining your job skills and qualifications for this position to jobs@kingcd.org using the subject line *Agricultural & Natural Resources Engineer*.

To learn more about the King Conservation District, visit www.kingcd.org .

This position will remain open until filled