

King County Flood Control District

Position Description

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| Position: Chief Engineer | FLSA: salaried, overtime exempt |
| Board Approved: 2/11/2020 | Salary Grade: 130 |
| Updated: 3/3/2020 | |

Summary

Under direction of the Executive Director, analyze and review technical engineering, project and program work from service providers who implement river and floodplain management projects and programs on behalf of the King County Flood Control District. The Chief Engineer is a salaried, at-will, overtime exempt classification. This position reports to the Executive Director, but is responsive to all members of the Board of Supervisors.

Essential Duties and Responsibilities

Provide engineering review, technical oversight and quality control for the implementation of the King County Flood Control capital improvement projects and operating work programs.

Provide the King County Flood Control District with technical expertise to assist the board in policy making decisions including capital project implementation and sequencing.

Independently perform complex professional engineering and environmental assignments in river and floodplain management.

Direct personnel in the oversight and inspection of construction of river and floodplain management projects, including revetment, levee, floodwall or floodplain reconnection capital projects or repairs.

Work in close coordination with service providers in the technical and quality engineering review of capital improvement projects to apply accepted design and engineering standards.

Review approval of design and construction contract documents.

Work with service providers, local jurisdictions, tribes, and other parties to identify and prioritize projects and programs for implementation within King County.

Develop and maintain positive ongoing relationships with cities, residents, stakeholders, and local, state and federal agencies.

Maintains confidentiality of work-related issues and District information.

Other duties as assigned.

Qualifications

Knowledge and Experience

Knowledge of environmentally sensitive techniques used in river and floodplain management projects in the Pacific Northwest, such as bioengineering approaches for bank stabilization, incorporating riparian vegetation, and use of large wood in bank repairs and engineered logjams.

Knowledge and experience in scour and bank slope stability analyses as related to river facilities, e.g., levees and revetments.

Experience conducting field reconnaissance, and river facility inspections and

assessments.

Knowledge and understanding of geomorphic processes and sediment transport.

Experience in the preparation of engineering plans and specifications, detailed project quantities and cost estimates, and construction procurement bid packages. Experience directing the use of drafting and mapping software, such as AutoCAD and ArcGIS, for development of engineering drawings.

Experience in preparing analytical and design reports and making presentations to a wide variety of audiences.

Knowledge and experience in intergovernmental and tribal relations, legislative processes and policy issues. Knowledge and understanding of local, state, and federal permitting requirements.

Knowledge and experience in the application of floodplain management policies and associated county, state, and federal floodplain management regulations.

Experience interpreting flood and channel migration hazard mapping, including Flood Insurance Rate Maps and Studies.

Abilities

Ability to perform workload management, resource utilization, budget and schedule development for capital projects during planning, design, contracting, construction management, and operations and maintenance phases.

Demonstrated ability to communicate technical information effectively, in writing and verbally, with staff, consultants, business and professional groups, and landowners.

Maintain confidentiality, discretion, and situational awareness for effective performance.

Proficiency with PC including Microsoft Office Products, experience with other application software is desirable.

Physical Abilities

Requires the ability to conduct physical site inspections and evaluation, including times of inclement weather conditions. There is often a need to walk on uneven terrain, for extended periods of time. Field conditions include brushy, forested environments; river, stream and wetland corridors; and slippery, uneven surfaces and dynamic conditions in the outdoors.

Requires the ability to sit for extended periods of time to accomplish deskwork.

Requires sufficient arm, hand, and finger dexterity in order to use a personal computer keyboard, multi-media presentation, and other office equipment.

Requires normal hearing and speaking skills to communicate in one-on-one and group settings.

Requires visual acuity to read printed materials and computer screens.

Education and Experience

Registration as a professional engineer (P.E.) in the State of Washington or if licensed

in another state, must be eligible for professional engineering licensure by comity.

At least seven years of increasing responsibility in the application of river channel hydraulics and modeling, slope stability analysis, bank stabilization and levee design, project and construction management, permitting, and cultural resources requirements.

Bachelor of Science from an accredited college or university in civil engineering, specifically in the area of hydraulic engineering or river mechanics, or environmental engineering OR an equivalent combination of education and experience that provide the necessary knowledge, skills, and abilities to perform the described duties.

Master of Science in civil engineering specifically in the area of hydraulic engineering or river mechanics, or environmental engineering is highly desirable.

Licenses and Certificates

Require a valid driver's license, and ability to travel throughout King County in a timely manner.

Working Conditions

Work is primarily performed in an office environment, with occasional time spent in the field. Heavy workloads, deadline pressure, and interruptions due to changing priorities are not uncommon.