



**King County  
ENGINEER I**

**DEPARTMENT OF NATURAL RESOURCES AND PARKS  
WATER AND LAND RESOURCES DIVISION**

**Hourly Rate Range: \$22.98 – \$29.13**

**Job Announcement: 05MK4964**

**OPEN: 2/23/05      CLOSE: 3/11/05**

**WHO MAY APPLY:** This career service position is open to all qualified applicants.

**WHERE TO APPLY:** Required forms and materials **must** be sent to: **Michelle Kobuki, Human Resources, 201 South Jackson Street, Suite 600, M.S. KCS-NR-0600, Seattle, WA 98104.** Applications materials must be received by 4:30 p.m. on the closing date. (Postmarks are NOT ACCEPTED.) Contact (206) 296-1935 for questions regarding this announcement. Download applications from the Internet at: <http://www.metrokc.gov/ohrm/jobs/JobApplications.htm>

**PLEASE NOTE:** Applications not received at the location specified above may not be processed.

**FORMS AND MATERIALS REQUIRED:** A [King County application form](#), resume, cover letter and answers to the supplemental questionnaire are required.

**WORK LOCATION:** King Street Center, 201 South Jackson Street, Seattle, and various field locations throughout King County.

**WORK SCHEDULE:** This position works a 40-hour week and is overtime eligible.

**JOB DESCRIPTION:**

This position is needed to perform engineering and administrative support tasks required for coordinating floodplain management permit reviews between the Department and Natural Resources and Parks (DNRP) and the Department of Development and Environmental Services (DDES) consistent with adopted policies and procedures for flood hazard certifications and elevation certificates. The position will also provide technical and administrative support in developing and compiling technical and administrative documentation required for King County's annual Community Rating System (CRS) verification assessment by the Insurance Services Organization (ISO) and the Federal Emergency Management Agency (FEMA). Responding to public and agency inquiries related to floodplain management issues, maps, regulations, historic data, technical studies and information and requirements of County flood hazard codes and standards will be part of the major responsibilities noted above. The position will also provide other associated technical tasks and administrative support for the Flood Hazard Reduction Services Section in DNRP in implementing Countywide flood hazard reduction services.

Typical assignments include but are not limited to:

- Review and coordinate floodplain permit applications and associated technical studies and files between DNRP and DDES throughout the review and certification process. Coordinate complex issues and questions with river basin technical leads. Monitor and track status of permits and reviews.

**KING COUNTY IS AN EQUAL OPPORTUNITY EMPLOYER. JOB ANNOUNCEMENTS ARE AVAILABLE IN ALTERNATIVE FORMATS FOR PERSONS WITH DISABILITIES.**

(206) 296-5209 JOBLINE <http://www.metrokc.gov/ohrm/jobs/> Website Address (206)-296-8535 TTY

- Evaluate floodplain permit applications and technical studies for consistency with County flood hazard codes and standards. Identify permit deficiencies and potential conditions. Coordinate with DDES reviewers to obtain supplemental submittals from applicants. Coordinate worksheet decisions and signatures with DDES.
- Compile applicant submittals, permit forms, technical engineering studies, site and building plans, survey and topographic data, completed worksheets and permit decisions in organized and complete files.
- Support the preparation of the county's CRS certification application, including all required technical, mapping and permit documentation and summaries of annual work products associated with CRS activity worksheets
- Review and verify Elevation Certificates(EC's) are correctly completed and EC documentation is properly tracked and filed to meet verification requirements for CRS and Community Area Visits(CAV) reviews
- Consult and coordinate with DDES to obtain and organize permit files, documentation on elevation certificates and other information related to flood hazard code requirements(e.g., zero rise and compensatory flood storage compliance) for CRS justification.
- Assist in the summarizing and documenting related CRS materials and information required with annual certification application and submittal package.
- Document and maintain files of required flood hazard mapping and related information to ensure compliance with National Flood Insurance Program (NFIP), CRS and related County standards required by public rules and administrative policies and procedures.
- Coordinate between DNRP and DDES to document and maintain a complete repository of FEMA flood insurance studies, FIRM's, LOMA's, LOMR's, technical reports, letters, responses from FEMA's technical review contractor (i.e., Baker) and other pertinent/related correspondence and information.
- Coordinate with DDES to establish and maintain County repository of floodplain mapping documentation and studies required by DDES public rule.
- Coordinate responses to the public and property owners on floodplain inquiries, dissemination of technical information and mapping, survey and related information.
- Develop and provide improvements to County systems, documents and public information communications related to information needs and public inquiries concerning floodplain information and related data.
- Coordinate information with lending institutions, realtors, and other agencies to improve information and enhance understanding of flood hazard codes and regulations and to meet federal and state floodplain management requirements.
- Support and assist with technical engineering and administrative tasks associated with DNRP's provision of flood hazard reduction services (e.g., public requests for DNRP flood hazard information, assistance with flood warning and emergency response services, facility maintenance permitting and project design support, field engineering data collection and survey, coordination with cities and agencies (e.g., FEMA) on wide range of floodplain management issues and flood hazard reduction services.

#### **QUALIFICATIONS:**

- Bachelor of Science degree with major course work in civil engineering, environmental engineering or related fields, OR substituting two years of progressively responsible related engineering experience for each academic year of the required education or an equivalent combination of education and experience.
- Registration as an Engineer in Training (EIT) is required

- Knowledge and understanding of King County( or equivalent) flood hazard codes and standards, including application of code provisions on specific development sites/projects
- Ability to review technical hydrologic and hydraulic studies and engineering reports for conformance with County codes, standards and administrative policies and procedures
- Working knowledge and understanding of federal, state and local floodplain and disaster mitigation policies, plans and programs
- Working knowledge and understanding of FEMA Elevation Certificates(EC's) and associated software, including demonstrated experience in the use of procedures/guidelines for correctly completing EC forms and verifying building compliance with code provisions through tracking and documentation of EC's with corresponding floodplain permit application and associated technical data and floodplain studies
- Demonstrated experience and skills with GIS software in creating and editing floodplain mapping and other technical data layers (e.g., ArcGIS).
- Demonstrated ability to write and communicate technical and policy issues related to floodplain management clearly and effectively with varied levels of staff, consultants, business and professional groups, citizens and landowners
- Demonstrated ability to work effectively and cooperatively across department lines and with senior level managers, supervisors, technical leads and program staff

***DESIRED KNOWLEDGE AND SKILLS:***

- Advanced knowledge and understanding of hydrologic and hydraulic principles and experience developing, using and reviewing input and output data from contemporary hydraulic models (e.g., HEC-RAS)
- Advanced knowledge and understanding of FEMA Flood Insurance Rate Maps (FIRM's), including ability to effectively read and interpret mapped information, Base Flood Elevations (BFE's) and technical data from Flood Insurance Studies (FIS)and completed FIRM's, procedures for map modifications, and local role vs. federal role in review and approval process for FIRM's and FIRM modifications
- Demonstrated knowledge and understanding of the purpose and scope of the NFIP CRS program.
- Familiarity and understanding of the CRS application and procedures required for local communities to obtain CRS credit, required documentation and submittals for CRS activity areas, and general understanding of processes and procedures for annual recertification, modifications and cycle verifications
- Experience in assessing flood hazard problems and needs including planning, permitting, designing, constructing, inspecting, and monitoring flood hazard reduction capital projects
- An understanding of the separate roles and responsibilities of King County departments in the provision of floodplain management and flood hazard reduction services.

***NECESSARY SPECIAL REQUIREMENTS:*** A valid Washington State Driver's License or the ability to travel throughout the County in a timely manner. An offer of employment will be contingent on the success of a pre-employment physical examination.

***UNION MEMBERSHIP:*** Positions in this classification are represented by Local 17A, the International Federation of Professional and Technical Engineers.

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**Supplemental Question:**

The following question must be completed and submitted with the application. The following question addresses important elements of this position and the information you provide will help to determine your eligibility for further consideration. Please limit your response to no more than two pages.

- Describe your experience and expertise with the following Federal Emergency Management Agency (FEMA) programs:
  - National Flood Insurance Program
  - Community Rating System
  - Disaster Mitigation Act of 2000