



City of Klamath Falls

Position Description

Position: Junior Engineer	Group: AFSCME
Department: Development Services	FLSA: Non-Exempt/Represented
Evaluated by: City Engineer	Salary Grade: 119

Summary

An employee in this position works under the direction of the City Engineer to perform entry-level professional civil engineering work, providing solutions to complex problems that arise in the design, review, and construction of City infrastructure and related development projects.

Distinguishing Career Features

The Junior Engineer position is the entry-level career path for the professional engineering pathway within Development Services. The professional engineering career path includes Junior Engineer, Assistant Engineer, Associate Engineer, and City Engineer. This classification is distinguished from the engineering technician pathway by the greater complexity of assignments and level of independent decision-making required of this position. Employees in this pathway seek to obtain their professional engineering registration.

Incumbents will be eligible to advance to the next level, Assistant Engineer, based on successful job performance and passing the NCEES Fundamentals of Engineering (FE). Failure to pass the NCEES Fundamentals of Engineering (FE) within two (2) years of employment may be subject to termination or demoted to the engineering technician pathway.

Essential Duties and Responsibilities

- Coordinate engineering projects between developers, contractors, utility providers, agencies, other City departments, and the public.
- Coordinate and perform field survey work.
- Perform complex engineering calculations.
- Perform field inspections of various engineering projects.
- Provide support to Engineering Technicians.
- Provide oversight and assistance with City's Franchise Utilities permitting and inspection program.

- Provide engineering data and cost estimates for the City budget.
- Assist with the professional level engineering tasks essential for the planning, estimating, scoping, design, bidding, and construction of Public Works projects.
- Assist with reviews and written correspondence of plans and specifications for private residential and commercial development projects.
- Assist with plan checks to ensure contractor compliance with City specifications.
- Assist with coordination and performance of project management and inspection duties and documentation of private and public construction projects. Projects may include, but not limited to, private residential and commercial development, publicly dedicated infrastructure improvements, and capital improvement development from City and other public agency departments.
- Assist GIS Coordinator with system information updates in the form of utility location maps for water, sewer, storm, streetlights, geothermal, etc. utilities in GIS and AutoCAD format.
- Assist City Engineer and Associate Engineer with inspection, documentation, and monitoring of capital infrastructure related improvements.
- Assist in writing specifications, preparing plans, and calculating cost estimates for various engineering projects.
- Prepare and file a variety of reports and correspondence related to public inquiries and activities in assigned area of responsibility.
- Prepare technical level correspondence, reports, agenda items, project recommendations or other written material for staff, management, or City Council.
- Review and perform field inspections of traffic control plans for projects obstructing normal traffic circulation.
- Review and perform field inspections of erosion and sediment control plans for development within City limits.
- Administer and enforce City codes and standards on engineering projects.
- Respond to citizen complaints concerning engineering problems.
- Analyze material submittals and design data submitted to the City.
- Process, file, and maintain a variety of records, maps, plans, permits, property descriptions and other related information in both digital and hard copy.
- Other duties as assigned, including support for other department staff as required; the scope of the assigned area of responsibility dependent on departmental structure and is at the discretion of the City Engineer and/or Development Services Director.

Qualifications

▪ **Knowledge and Skills**

The position requires specialized knowledge of principles of civil engineering; construction and inspection methods and materials testing techniques; principles of engineering designing procedures; applicable engineering standards and development codes; principles and terminology of public works; water/sewer systems; geothermal systems; streets and paving; word processing and spread sheet programs. Knowledge of sitework construction practices, utility designs, commonly used products and materials, and the related function of utility systems. The position requires skills in using Computer Aided Drafting (AutoCAD), Geographical Information System (GIS), computer assisted drafting equipment and software, networks, scanners, plotters and negotiating the storage of data on server systems, as associated with the assignment is desired. The position requires proficiency with Microsoft Office applications and general computer work. An understanding of mathematical concepts and drafting techniques; state and local statutes, codes, and regulations; recordkeeping principles and practice, databases and filing systems. Requires knowledge of the methods and techniques used in citizen involvement and external communications. Requires well-developed human relations skill to conduct persuasive discussions with diverse audiences, present ideas clearly, resolve conflict, and convey technical concepts to others.

▪ **Abilities**

Read and interpret documents such as construction contract documents including design plans and specifications, standards, requirements; technical instructions in mathematical or diagram form; to write routine reports and correspondence; to perform arithmetic computations; maintain and prepare records and reports; operate a variety of appliances and equipment; establish and maintain effective working relationships. Perform professional level complex engineering calculations. Incumbents must demonstrate the ability to handle job stress and interact effectively with others in the workplace. Ability to respond intelligently and effectively to common inquiries or complaints from customers, regulatory agencies, or members of the business community. The City of Klamath Falls has a specific emphasis on service to our customers. Our goal is to create a positive, productive, and courteous atmosphere for our employees and customers. Employees are evaluated on the quality of customer service they provide.

▪ **Physical Abilities**

Requires sufficient ambulatory ability to move about to office and other locations. The employee must regularly lift and/or move up to 60 pounds. Requires auditory ability to carry on audience, ordinary, and telephonic conversation. Requires near and far visual acuity to read detailed maps, drawings, other printed material, computer screens, and observe physical layouts. Specific vision abilities required by this job include close vision, peripheral vision, depth perception, and the ability to adjust focus. Requires manual and finger dexterity to write and to operate microcomputers and other office equipment. Ability to alternatively sit and stand for sustained periods of time to perform counter work. While performing the duties of this job, the employee is regularly required to: stand; walk; sit; use hands to finger, handle, or feel objects, tools, or controls; reach with hands and arms; and stoop, kneel or crouch; and talk or hear. The employee is occasionally required to climb or balance.

▪ **Education and Experience**

Bachelor's degree in civil engineering or related field from an accredited college.
Prefer experience in related construction and/or engineering plan review and associated field inspection.

▪ **Licenses and Certificates**

- Valid Oregon Driver's License. New employees establishing resident status in the State of Oregon must obtain an Oregon driver's license within 30 days.
- Completion of NCEES Fundamentals of Engineering (FE) within two (2) years of employment.

▪ **Working Conditions**

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable qualified individuals with disabilities to perform the essential functions. While performing the duties of this job, the employee regularly works in outside weather conditions. The employee occasionally works near moving mechanical parts; in high, precarious places; and is occasionally exposed to fumes or airborne particles. The noise level in the work environment is usually moderate.

▪ **Pre-Employment**

Job offers for this position are contingent on the individual passing a pre-employment drug screen and fit-for-duty exam.

The City of Klamath Falls is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City of Klamath Falls will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.