

LINN COUNTY CLASSIFICATION

TITLE: SENIOR ENGINEERING TECHNICIAN

NUMBER: 272

PAY RANGE: 16

CATEGORY: OPEU

APPROVAL ORDER

NUMBER: 2000-347

DATE: June 28, 2000

GENERAL STATEMENT OF DUTIES/JOB OBJECTIVES: Performs a variety of specialized technically complex sub-professional engineering work in the location, design construction and inspection of projects.

SUPERVISION RECEIVED: Works under the supervision of the County Engineer who assigns projects and reviews work for conformance to standards and instructions.

SUPERVISION EXERCISED: This classification involves occasional supervision of one to three technicians or temporary employees in the performance of design, construction or inspection projects.

ESSENTIAL FUNCTIONS: A person employed in this classification must possess the capability to perform the following duties to be considered for this position. The duties are essential functions requiring the critical skills and expertise needed to meet job objectives. Additional specific details of these essential functions may be provided by the specific office or department job announcement, if applicable.

1. Design road and drainage improvements. Prepare plans, specifications, and determine quantities and estimates; prepare plans and calculation for rights-of-way; check plans and calculations of projects prepared by others; prepare miscellaneous drawings and plans.
2. Inspect construction projects and pavement overlays; prepare payment estimates; inspect utility construction in County right-of-way; insure compliance with plans and specifications on all projects.
3. Inspect county bridges and maintain inspection records and bridge map.
4. Perform surveying as required - preliminary - right-of-way construction, and stock pile measurements and quantities for payment.
5. Conduct tests of pavement and subgrade for evaluation; test rock materials for compliance with specifications.
6. Conduct radar speed studies, traffic counts, and road inventories.
7. Develop and maintain effective, harmonious and reasonable work relationships with others.
8. Maintain regular and predictable work attendance.

OTHER FUNCTIONS:

9. Other duties as assigned.

RECRUITING REQUIREMENTS: (Additional specific details may be provided by the specific office or department job announcement, if applicable).

KNOWLEDGE, SKILL, AND ABILITY: Considerable knowledge of the principles, practices, and techniques of engineering as related to a technical specialty. Considerable knowledge of mathematics including algebra and trigonometry and their application to engineering problems. Considerable knowledge of the techniques, principles, methods, practices and materials commonly involved in engineering projects. Considerable knowledge of property mapping systems. Considerable knowledge of drafting principles, methods, and practices. Considerable knowledge of surveying principles, practices and methods.

Skill and ability to use specialized office and field equipment used in engineering, including personal computers and engineering drafting and design software. Ability to design engineering plans and prepare specifications. Ability to gather and correlate data from various sources. Ability to read, interpret and apply engineering plans and specifications. Ability to supervise and inspect the work of contractors and to obtain adherence to plans and specifications. Ability to inspect bridges for defects.

EXPERIENCE, EDUCATION AND TRAINING: Four years of public works engineering experience at the Engineering Technician 2 level; and graduation from a two-year college with an Associate Degree in Engineering Technology, preferably supplemented by additional college level coursework in engineering or related field; or any satisfactory equivalent combination of experience, education and training which demonstrates the ability to perform the work described.

NECESSARY SPECIAL QUALIFICATIONS: Possession of a valid Oregon Motor Vehicle Operator's License and an acceptable driving record.

PHYSICAL DEMANDS AND WORK ENVIRONMENT: Work is performed in an office environment and outside at field work sites in all weather conditions. The work requirements include the ability to see, talk and hear, sit and stand, walk, bend and stoop, drive a motor vehicle, handle or operate objects, tools or controls, and reach with hands and arms. Must be able to lift and carry up to fifty (50) pounds.