

Public Works Intern – Engineering

Minimum Preparation for Work:

College or high school student, 16- to 24-years old, who resides or attends school in Escambia County with sufficient education to demonstrate an ability to read and write and follow written instructions.

Necessary Special Requirements:

Knowledge of English usage, spelling, grammar, and punctuation; arithmetic and basic mathematical calculations. Ability to communicate clearly and concisely, both orally and in writing. Provide research assistance; collect and analyze data, prepare correspondence and reports. Establish and maintain effective working relationships with those contacted in the course of work. Display interest and desire to expand knowledge in Civil/Environmental Engineering, Construction Management, or Project Management. Possess an appropriate driver license for equipment operated and any license, training or certification required by law or regulation to complete assigned tasks.

Nature of Work:

City of Pensacola Public Works Internship program is designed to provide individuals an opportunity to work side by side with experienced, skilled Engineering staff while gaining hands-on training with survey instruments (auto level, total station, GPS) for such things as locating objects in GIS, topographic work, laying out horizontal dimensions for buildings foundations, establishing horizontal and vertical control, and construction lay out.

Examples of Work:

- Become acquainted with surveying mathematics, tools, software, and equipment. Learn about different types of surveys, field operations, survey mathematical computations, geometry, and trigonometry. Learn to make arithmetical computations quickly and accurately.
- Exposure to project management from early conceptual design through project closeout. Get introduction to local utility providers, local engineering firms, local surveyors, etc. Prepares Engineering feasibility studies and analysis for improvement to public infrastructure.
- Spend time in the field with Construction Inspector to further knowledge of reading of plans, why constructability matters, and what goes into a complete project. Take time to review a specification package and how these documents are used to ensure quality of workmanship and materials. Understand the inner-workings and equipment used by a contractor.

Mental and Physical Requirements:

While performing the duties of this job, the employee is regularly required to use hands and fingers to hold or feel, reach with hands and arms, walk, talk, and hear. The employee is occasionally required to stand, sit, climb, balance, stoop, and crouch. Specific vision abilities include near distance, far distance, color, peripheral vision, and depth perception.

Ability to: On a continuous basis, sit at desk and/or stand at counter for long periods of time; know and understand the job and observe safety rules. Intermittently, sit while studying or preparing work papers, making computations, working at computer equipment; walk, stand, bend, squat, climb, kneel, and twist while performing field work; perform simple and power grasping, pushing, pulling, and fine manipulation; and see and hear sufficiently to communicate by visual and auditory signals while working in the field; lift moderate to heavy weight depending upon the needs of the assignment. Learn a variety of administrative and professional tasks. Learn to prepare effective reports and make recommendations on assigned matters under study. Work with various cultural and ethnic groups in a tactful and effective manner.

Work Environment:

The noise level in the work environment varies from moderate to loud. This position requires an employee to be routinely exposed to outside weather conditions and construction site related safety risks.

This description is not intended to be, nor should it be construed as an all-inclusive list of responsibilities, skills or working conditions associated with the position. It is intended to accurately reflect the activities and requirements of the position, but duties may be added, deleted, or modified as necessary. This description does not constitute a written or implied contract of employment.