



CLASS SPECIFICATION

Class Code: 60019507
Date Established: 07/2024
Last Reviewed:
Last Revised:
Last Title Change:
FLSA: non-exempt
Probation: 6 months

HYDROLOGIC TECHNICIAN

DEFINITION

Under supervision, performs a variety of technical duties related to hydrologic monitoring and field work; and performs related work as required.

EXPERIENCE AND TRAINING REQUIREMENTS

One year of full-time field experience which includes formal training in hydrology, hydrography, or a closely related field; OR an associate's degree in hydrology, hydrography, or a closely related field AND six months field experience in hydrology or hydrography or a closely related field; OR an equivalent combination of related education and experience. A bachelor's degree in hydrology, hydrography, watershed science management, or a closely related field can substitute for the required experience.

LICENSE OR CERTIFICATE

A valid driver's license is required at the time of appointment and must be maintained for continued employment in this classification.

SUPERVISION EXERCISED

Exercises no supervision.

EXAMPLES OF DUTIES *(The following is used as a partial description and is not restrictive as to duties required.)*

Maintain and manage precipitation gages of the alert system and manage the USGS (United States Geological System) stream gage contract.

Operate and maintain climate monitoring system to help identify flood forecasting monitoring.

Maintain and manage the alert system conveyance of information to interested parties.

Develop flood maps from modeling results; utilize modeling software and databases to create basic mapping and calculations for flooding characteristics and conditions.

Perform data reduction, analysis, and monitoring on precipitation, streamflow, and other related hydrological and terrain data.

Maintain data archives for hydrological monitoring and terrain data.

Provide support to department staff within assigned functional area to include, but not limited to, clerical duties such as compiling data and submitting statistical reports; maintaining files; handling inquiries from internal and external stakeholders.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Full Performance Level *(These may be acquired on the job and are needed to perform the work assigned.)*

Knowledge of:

Department/division policies, procedures, and operations.

Applicable federal, state, and local laws, regulatory codes, and ordinances relevant to assigned area of responsibility.

Department specific software to include mapping and modeling software and databases.

Principles and practices of flood monitoring and forecasting.

Department specific equipment to include precipitation gages of the alert system and climate monitoring system.

Ability to:

Perform basic mapping and calculations related to flooding conditions.

Review contract terms and conditions to ensure compliance and acceptable performance standards.

Evaluate operations, including work processes and procedures, to determine effectiveness and efficiency.

Entry Level (*Applicants will be screened for possession of these through written, oral, performance, or other evaluation methods.*)

Knowledge of:

Principles and practices of hydrology and hydrologic field work.

Commonly used equipment used in hydrologic analysis and monitoring.

Methods and techniques of record management, data collection, and documentation.

Modern office procedures, practices, and methods.

Ability to:

Analyze information/situations, project consequences of proposed actions, formulate alternative solutions and provide appropriate recommendations.

Operate and maintain a variety of hydrology equipment to include monitoring equipment and precipitation gages.

Research, compile, tabulate, analyze, and interpret data and information.

Plan and organize work to meet schedules and timelines.

Read, interpret and apply regulations, policies, and procedures.

Communicate clearly and concisely, both verbally and in writing.

Establish, maintain, and foster effective and positive working relationships with all those contacted in the course of work

SPECIAL REQUIREMENTS (*Essential duties require the following physical skills and work environment.*)

Ability to work in a professional office environment and various field locations. Ability to lift and move objects weighing up to 75 lbs. Ability to work outside in a variety of weather conditions. Ability to work under conditions involving exposure to moderate levels of dust and noise.

This class specification is used for classification, recruitment, and examination purposes. It is not to be considered a substitute for work performance standards.