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Geodesist 12 (State Advisor)

GS-1372-12

NOTE: THE SENTENCE IN PART I DESCRIBING THE PURPOSE OF THE POSITION AND PARTS II AND III IN THEIR ENTIRETY ARE PERMANENT PARTS OF THE LIBRARY AND MAY NOT BE CHANGED OR EDITED IN ANY WAY.

I. INTRODUCTION

Serves as a Geodetic State Advisor to a host state government agency, and a geodetic liaison for statewide public and private geodetic activities.

II. DUTIES AND RESPONSIBILITIES

Furnishes technical advice and assistance to state and local agencies to promote federal geodetic policy. Applies the latest geodetic methodologies, such as the Global Positioning System, that relate to Geodetic applications.

Coordinates a program for related to the National Spatial Data Infrastructure (NSDI) and the National Spatial Reference System (NSRS), and coordinates policy related to Geographic Information Systems (GIS).

Furnishes technical advice and assistance to state agencies to develop and manage state programs and projects which establish, use, and maintain geodetic control. Provides technical assistance to field parties, line, and staff offices.

Monitors field surveys to assist in assessing and improving the capability to perform geodetic surveys. Also, performs field inspections and provides field training.

Assists the states to develop a capability for computing and managing geodetic data using automated techniques.

Serves as a BETA TESTER on software and survey hardware to improve accuracy and reduce time and costs associated with geodetic surveys.

Maintains liaison with federal agencies, state agencies, local agencies and universities, and other organizations that have requirements for spatial data.

III. FACTORS

1 - Knowledge Required by the Position. Knowledge of applications and requirements for geodetic control to advise and assist the states to plan and manage state programs and projects. The employee must have a broad knowledge of the primary applications of geodetic control related to metropolitan area urban surveys (especially, as it relates to the development of Land Information Systems/Geographic Information Systems), special purpose surveys, high precision 3-dimensional satellite surveys, and surveys performed by other federal, state, and local agencies.

Knowledge of geodetic surveying techniques, specifications, and instrumentation to advise and assist the state to develop a capability for geodetic surveying. Employee must have a knowledge of the capabilities of the various types of instruments and equipment used in past and present day field operations. Must have knowledge/techniques in order to train others in the planning and execution of Global Positioning System surveys.

Knowledge of geodetic computations and automated data processing requirements to advise and assist the states to develop a capability for geodetic computations and geodetic data management. General knowledge with geodetic computer software and GPS post processing software.

2 - Supervisory Controls. Supervisor provides general direction. Planning and methodology is developed by employee in consultation with supervisor. Independently plans own work, interprets policy in terms of established objectives, and keeps supervisor informed of progress and major or potentially controversial issues. Completed work is typically accepted as technically accurate, and is subject to broad review for meeting objectives.

3 - Guidelines. Guidelines consist of standard instructions, local policies, and handbooks which are often inadequate in dealing with difficult assignments. Employee uses initiative in applying guidelines, deviating from established techniques and developing new methods, criteria or proposed new policies.

4 - Complexity. The work involves a high degree of scientific and technical originality and judgment. Sometimes, solutions to one may be in direct conflict with the solutions of another. Assignments/projects produce state-of-the-art, comprehensive technical and assessment reports. The work requires creation of new techniques and approaches to meet objectives.

5 - Scope and Effect. Work involves planning, management, and coordination of one or more major segments of the unit's operation. Employee develops new specifications and procedures and provides technical advice and guidance covering a broad range of geodetic activities. Work effects major aspects of NOAA's geodetic programs.

6 - Personal Contacts Personal contacts are with individuals or groups outside the employing agency including individuals from the private sector desiring special coordinate products. The setting is moderately unstructured.

7 - Purpose of Contacts. Contacts are established to plan and coordinate work, reach agreement on requirements for coordinate production, and advise on and resolve problems confronting others concerning contract requirements. Groups and/or individuals work towards mutual goals and are cooperative.

8 - Physical Demands. Work involves sitting, standing, walking, occasionally backpacking, climbing, and transporting instruments. A valid driver's license is required to perform the work.

9 - Work Environment. The employee works about equal time in an office which is adequately lighted, heated and ventilated. Work is also performed outdoors where the employee is exposed to various natural hazards encountered during surveying.

IV. UNIQUE POSITION REQUIREMENTS:

This position is exempt from coverage under the Fair Labor Standards Act.

(Last Updated:)

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