



ARMY POSITION DESCRIPTION

PD#: GW508194

Sequence#: VARIES

Replaces PD#:

LAND SURVEYOR

GS-1373-12

POSITION LOCATION:

Servicing CPAC: SOUTHEAST ATLANTIC

Installation: VARIES

Region: SOUTH CENTRAL

Agency: VARIES

Army Command: VARIES

Command Code: VARIES

POSITION CLASSIFICATION STANDARDS USED IN CLASSIFYING/GRADING POSITION:

Citation 1: OPM JFS PROF. PHYSICAL SCIENCE WORK, GS 1300, DEC 97

Supervisory Certification: *I certify that this is an accurate statement of the major duties and responsibilities of this position and its organizational relationships, and that the position is necessary to carry out Government functions for which I am responsible. This certification is made with the knowledge that this information is to be used for statutory purposes relating to appointment and payment of public funds, and that false or misleading statements may constitute violations of such statutes or their implementing regulations.*

Supervisor's Name: TRACY L. HENDREN **Date Certified:** 07/12/2018

Classification Review: *This position has been classified/graded as required by Title 5, U.S. Code in conformance with standard published by the U.S. Office of Personnel Management or if no published standards apply directly, consistently with the most applicable published standards.*

Classified By: PATRICIA WHITELY **Date Classified:** 07/12/2018

Position Cursory Review: *This position description (PD) has been reviewed and it is determined that: the major duties equal 100%; the statement Performs other duties as assigned (PODAA) is present; where applicable, the factors, levels, and points are identified directly under PODAA, add up correctly, and the Point Range for the grade is present; and, the Conditions of Employment are properly identified in the Conditions of Employment & Notes section and at a minimum include Temporary Duty Travel (TDY) 25% or more (may be less if requested by management). The PD is in the format of the classification standard of record, and the standard(s) is/are cited properly, and the title/series/grade are properly determined based on the standard. The FLSA is correct and when it is determined that the position is Exempt, a complete explanation is provided, and all outdated/obsolete forms are*

removed. (All position descriptions require a cursory review upon initial verification in FASCLASS and updated once a year thereafter or whenever the PD is updated).

Reviewed By:

Date Reviewed:

POSITION INFORMATION:

Cyber Workforce:

- **Primary Work Role:**
VARIES
- **Additional Work Role 1:** VARIES
- **Additional Work Role 2:** VARIES

FLSA: EXEMPT

FLSA Worksheet: EXEMPT

FLSA Appeal: NO

Bus Code: VARIES

DCIPS PD: NO

- **Mission Category:**
- **Work Category:**
- **Work Level:**

Acquisition Position: NO

- **CAP:**
- **Career Category:**
- **Career Level:**

Functional Code: 21

Interdisciplinary: NO

Supervisor Status:
VARIES

PD Status: VERIFIED

DCA Override: NO

CONDITION OF EMPLOYMENT:

Drug Test Required:
VARIES

Financial Management Certification:

Position Designation:
VARIES

Position Sensitivity:
VARIES

Security Access: VARIES

Emergency Essential:

Requires Access to Firearms: VARIES

Personnel Reliability Position: VARIES

Information Assurance: N

Influenza Vaccination:
NO

Financial Disclosure: NO

Enterprise Position:
VARIES

POSITION ASSIGNMENT:

Competitive Area: VARIES

Competitive Level:
VARIES

Career Program: VARIES

Career Ladder PD: NO

Target Grade/FPL: 12

Career Pos 1:

Career Pos 2:

Career Pos 3:

Career Pos 4:

Career Pos 5:

Career Pos 6:

POSITION DUTIES:

SUPERVISORY CONTROLS

Incumbent receives general administrative supervision from the Data Management Section Chief who sets the overall objectives and resources available. The employee and supervisor, in consultation, develop the deadlines, projects, and work to be done. The incumbent performs professional work with freedom from technical control in selecting methods and procedures and is relied upon for application of sound judgment in and experienced accomplishment of unprecedented and novel work assignments. Controversial matters involving policy questions are referred to the supervisor with recommended solutions, and decisions are reached as a result of joint consideration and agreement. Scientific recommendations and technical work are regarded as sound and complete. Completed work is reviewed for compliance with policy, and meeting program objectives.

MAJOR DUTIES

Utilizing a professional knowledge of geomatic theories and application while assigned to the Data Management Section, Design Branch, Engineering Division, incumbent addresses complex assignments of considerable breadth related to geomatic engineering investigations with wide latitude for the exercise of independent judgment. Responsibilities

include acquisition, modeling, analysis, and management of geospatially referenced data obtained from terrestrial, marine, airborne, and satellite-based sensors in support of planning, design, and construction of Military Construction, Civil Works, and Operations and Maintenance (O&M) projects throughout the States of Georgia, South Carolina, and North Carolina.

1. As a Land Surveyor, the incumbent uses professional scientific knowledge and techniques to plan, coordinate, and execute all assigned surveying and mapping functions to include in-house surveys and surveys performed by contract. Incumbent is responsible for coordinating all geomatics engineering functions related to the various ongoing projects within the District. Exercises working knowledge of the concepts, principles, and techniques of geomatics, including underlying mathematics, application of managerial skills in the development and evaluation of new methods and improved procedures to the direction of geomatics programs, knowledge of laws and regulations affecting surveys and boundaries, a practical knowledge of land ownership law, and knowledge of contracting. The incumbent serves as a consultant and technical expert on engineering matters pertaining to the development of geomatics requirements for the planning, engineering design, construction, inspection, and operation and maintenance of military construction, civil works, and operations & maintenance programs and other requirements such as real estate and water resource planning. Schedules and deadlines, as well as priorities, are consultative and handled independently by the incumbent. In accomplishing these responsibilities, the incumbent develops complex data systems incorporating the use of CADD/GIS programs, specialized data processing and analysis software, surface modeling programs, and provides training in the use of equipment and software. The incumbent is responsible for being well versed in standard theory and practices in the geomatics field, and gaining further experience and knowledge that enables the incumbent to identify and define the scope and nature of obscure geospatial problems, project assumptions, and derive criteria from inconclusive or variable geospatial data. Maintains contact with other District organizations; higher headquarters; federal, state and local representatives of outside agencies; Architect-Engineer (A-E) contractors; and sponsors who are interested in the various survey projects. Uses sound judgment, initiatives, and resourcefulness in interpreting, adapting and applying complex guidance to geomatics engineering problems and issues. Develops and implements solutions to problems that are unique and outside the scope of current guidelines. Incumbent has responsibility for completing various types of specialized geospatial data acquisition and/or analysis under highly accelerated work schedules. Incumbent is considered a subject matter expert and provides technical expertise, experienced judgment and guidance to counterparts within the District, other governmental agencies, private interests and A-E firms. Determines the feasibility of performing assignments using either in-house or contract personnel, considering in-house capabilities of personnel and equipment, work scheduling, and work priorities in making this assessment. Assesses District survey needs and determines length and scope of contracts with A-E firms for engineering field inspections and geospatial services. In A-E selection process, serves on A-E selection boards, evaluates qualifications of firms, and serves on negotiation team. Defines and approves work performed by licensed AE Professional Engineers and Professional Surveyors and Mappers including annual and periodic engineering field inspections; remote sensing; topographic surveying; establishing, investigating, and reestablishing land and property boundaries; and, preparing plats and legal descriptions for tracts of land. Develops detailed independent government cost estimates, determines length and scope of IDIQ Contract Task Orders, and negotiates with AE firms for geospatial services and engineering investigations on flood protection, beach renourishment, dams, levees, reservoirs, navigation, and wetland restoration projects within the States of Georgia, South Carolina, and North Carolina.. Performs quality assurance checks on A-E geospatial services and reviews contract work for acceptability before approval is made for payment. Reviews statements of work for Task Orders prepared by other District Elements. The work requires application of professional knowledge of the concepts, principles and techniques of the land surveyor and

geomatics including underlying mathematics and in civil engineering applications, in combination with knowledge of land ownership laws. (35%)

2. Reviews and performs quality assurance of data acquired via in-house or contracted personnel, including review of planning, design, and construction documents for accuracy of geodetic, tidal, and quantity data; resolves geomatic and/or measurement and payment related construction disputes and claims. Geomatic positions require a strong background in geodesy (primarily understanding the principles and techniques of geodesy while determining the horizontal and vertical positions of points on the earth where consideration of the curvature of the earth is required), datums and reference frames, relational databases, and physics, especially optical, acoustics, and light. Geomatic professionals must have a practical understanding of how current technology works, its limitations, accuracies, and applications in terrestrial, marine, airborne, and/or space-based environments. This includes researching new and emerging technologies via trade journals, technical conferences, and in the field and making suggestions when new technology may benefit the district mission. The geomatic professional uses a knowledge of a wide variety of sophisticated and constantly changing technologies, including Global Navigation Satellite Systems (GNSS) used for static, kinematic, real-time kinematic, and airborne surveys, conventional survey equipment (optical and digital levels, robotic and reflector-less total stations, laser scanners, etc.), topographic and hydrographic LiDAR, synthetic aperture radar, and digital imagery equipment used in the field and office for photogrammetry, ortho-photography, intensity imagery, spectral imagery, etc. Uses the signals of different systems to interact with different environments, the limitations of these systems, and demonstrate how the final data should be represented, organized, laid-out, and adequately presented. (30%)

3. As a technical expert, utilizes knowledge of Geographic Information Systems (GIS), Global Positioning Systems (GPS), remote sensing, and computers to plan, coordinate, and accomplish mapping, geospatial analysis, and related GIS tasks necessary to conduct a variety of planning, engineering and construction projects in support of missions of the Savannah District. The incumbent utilizes numerous complex and sophisticated software programs for data processing, analysis, modeling, and presentation. Applies professional judgment, complicated technical skills, and scientific knowledge to perform analysis of GIS data. Reviews and evaluates the availability and technical adequacy of digital data generated by other government agencies, private sector, learning institutions and individuals for multipurpose use on District projects. Coordinates with District GIS Coordinator on inclusion of databases into corporate database for utilization by entire District. (25%)

4. Makes periodic site visits to help in the preparation of AE contract documents. Performs quality assurance during AE field work, and helps resolve measurement and payment issues during construction. Performs specialized geospatial engineering investigations in support of the District's Levee and Dam Safety Programs, aerial remote sensing control and verification, and critical topographic, boundary, and/or hydrographic projects. (10%)

Performs other duties as assigned.

Fair Labor Standards Act (FLSA) Determination = (EXEMPT)

- 1. Availability Pay Exemption** - (e.g., Criminal Investigators, U.S. Customs and Border Protection pilots who are also Law Enforcement Officers).
- 2. Foreign Exemption** - (Note: Puerto Rico and certain other locations do not qualify for this exemption - [See 5 CFR 551.104](#) for a list of Nonexempt areas.)

- 3. Executive Exemption:**
- a. Exercises appropriate management responsibility (primary duty) over a recognized organizational unit with a continuing function, AND
 - b. Customarily and regularly directs 2 or more employees, AND
 - c. Has the authority to make or recommend hiring, firing, or other status-change decisions, when such recommendations have particular weight.

Note: Shared supervision or "matrix management" responsibility for a project team does not meet the above criteria. Limited "assistant manager" functions or "acting in the absence" of the manager does not meet the above criteria.

- 4. Professional Exemption:**
- a. Professional work (primary duty)
 - b. Learned Professional, ([See 5 CFR, 551.208](#)) (Registered Nurses, Dental Hygienists, Physician's Assistants, Medical Technologists, Teachers, Attorneys, Physicians, Dentists, Podiatrists, Optometrists, Engineers, Architects, and Accountants at the independent level as just some of the typical examples of exempt professionals). Or
 - c. Creative Professional, ([See 5 CFR, 551.209](#)) (The primary duty requires invention and originality in a recognized artistic field (music, writing, etc.) and does not typically include newspapers or other media or work subject to control by the organization are just some examples of Creative Professionals). Or
 - d. Computer Employee, ([See 5 CFR, 551.210](#)) (must meet salary test and perform such duties as system analysis, program/system design, or program/system testing, documentation, and modification). Computer manufacture or repair is excluded (non-exempt work).
- 5. Administrative Exemption:**
- a. Primary duty consistent with [5 CFR 551](#) (e.g.; non-manual work directly related to the management or general business operations of the employer or its customers), AND job duties require exercise of discretion & independent judgment.

- FLSA Conclusion:**
- Exempt**
 - Non Exempt**

FLSA Comments/Explanations:

Position meets professional exemption criteria.

CONDITIONS OF EMPLOYMENT & NOTES:

Professional Surveying license in good standing in a State, Territory, or the District of Columbia obtained by written examination is required.

Incumbent will be TDY 30% of the time.

