



ARMY POSITION DESCRIPTION

PD#: GW00536

Sequence#: VARIES

Replaces PD#:

ELECTRICAL ENGINEER

GS-0850-12

Organization Title:

POSITION LOCATION:

Servicing CPAC: SOUTHEAST ATLANTIC

Agency: VARIES

Installation: VARIES

Army Command: VARIES

Region: SOUTH CENTRAL

Command Code: VARIES

POSITION CLASSIFICATION STANDARDS USED IN CLASSIFYING/GRADING POSITION:

Citation 1: OPM JFS PROF WORK ENG & ARCHITECTURE GROUP, NOV 2008

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 Name: MICHAEL BRENNAN **Reviewed Date:** 04/19/2018

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.*

Reviewed By: PATRICIA WHITELEY **Reviewed Date:** 04/19/2018

POSITION INFORMATION:

Cyber Workforce:

- **Primary Work Role:** VARIES

CONDITION OF EMPLOYMENT:

Drug Test Required: VARIES

POSITION ASSIGNMENT:

Competitive Area: VARIES

Competitive Level:

<ul style="list-style-type: none"> • Additional Work Role 1: VARIES • Additional Work Role 2: VARIES <p>FLSA: EXEMPT FLSA Worksheet: EXEMPT FLSA Appeal: NO Bus Code: VARIES DCIPS PD: NO</p> <ul style="list-style-type: none"> • Mission Category: VARIES • Work Category: VARIES • Work Level: VARIES <p>Acquisition Position: NO</p> <ul style="list-style-type: none"> • CAP: • Career Category: • Career Level: <p>Functional Code: 21 Interdisciplinary: NO Supervisor Status: VARIES PD Status: VERIFIED</p>	<p>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: VARIES Influenza Vaccination: NO Financial Disclosure: VARIES Financial Disclosure: NO</p> <p>Enterprise Position: VARIES</p>	<p>VARIES Career Program: VARIES Career Ladder PD: YES Target Grade/FPL: 12 Career Pos 1: GW480229 GS-0850-11 Career Pos 2: GW504124 GS-0850-07 Career Pos 3: GW504126 GS-0850-09 Career Pos 4: GW508222 GS-0850-05 Career Pos 5: Career Pos 6:</p>
<p>POSITION DUTIES: SUPERVISORY CONTROLS</p> <p>Works under the general supervision of the Chief, Electrical Section, receiving verbal instructions in general terms as to the scope of the assignments and objectives desired and working to a large extent on own responsibility with latitude for the exercise of initiative, judgment, and independent action in the accomplishment of same. Completed work is reviewed for compliance with pertinent criteria and effectiveness of results achieved.</p> <p>MAJOR DUTIES</p> <p>1. Serves as Project Engineer for the more difficult and unusual electrical engineering projects. These projects usually consist of building campuses that include office buildings, dormitories, educational facilities, and maintenance and repair facilities on military installations and at civil works projects. Manages the</p>		

electrical design work on such projects, including assigning tasks to other engineers, assembling, and disseminating pertinent criteria, and establishing criteria where none exists. Adapts or develops approaches to be used by less experienced engineers and provides guidance on especially difficult problems. 20%

2. Performs design on military and civil projects. Designs include interior electrical power systems, interior lighting and lighting control systems, interior building communications systems (voice and data), interior fire detection and alarm and mass notification systems, site power systems (primary and secondary), site communication systems (Outside Plant Systems), and site lighting and lighting control systems. Assignments involve interpretation of criteria, application of industry and government standards, preparation of contract drawings and specifications, and preparation of design analyses (fault current calculations, voltage drop calculations, demand load calculations, and lighting calculations). Studies and evaluates engineering alternatives, and proposes several configurations that meet the project objectives and are consistent with other technical discipline requirements. Makes large-scale field surveys of electrical systems, analyzing data and making recommendations for accomplishing desired results. Scope of surveys includes obtaining primary loading data for major portions of military base distribution systems, making reference maps of distribution systems, and determining most feasible means of modifying existing electrical systems in industrial-type buildings. 35%

3. Reviews and modifies plans and specifications prepared by A-E firms. Designs are reviewed for technical adequacy, economy of design, operational safety, system capacity, and compliance with pertinent criteria and good engineering practice. Reviews include military and civil works projects. 35%

4. Checks compatibility of project equipment for consistency with existing equipment used throughout the installation. Reviews shop drawings and manufacturer's technical proposals, including deviations, and recommends approval or disapproval. Recommends modifications to proposed designs where appropriate. 10%

Performs other duties as assigned.

FACTOR 1. Knowledge Required by the Position - Level 1-7 - 1250 Points

- Professional knowledge of, and skill in applying, a wide range of engineering or architectural concepts, principles, standards, and practices sufficient to: determine and/or execute actions for a wide range of assignments involving combinations of complex features; prepare, present, and evaluate plans, designs, reports, and correspondence; or to formulate, execute, advise on, and explain recommendations or solutions to modify standard practices, equipment, devices, processes, and techniques and resolve a wide variety of complex problems.

- Practical understanding of engineering sciences and techniques and research and developmental activities and technological advances.

- Familiarity with related engineering fields to fully comprehend relationships between assigned and related areas of engineering.

- Ability to conduct an extensive search for guidance to define project requirements in order to review engineering plans and specifications for determination of acceptability and to recommend improvements.
- Ability to monitor engineering aspects of activities associated with assigned projects and programs.

FACTOR 2. Supervisory Controls - Level 2-4 - 450 Points

Incumbent receives assignments in terms of project objectives and priorities. The engineer has the total responsibility for planning and carrying out assigned projects, coordinating with others, determining approaches to take, and resolving problems. The supervisor or designated employee is informed of progress and critical problem matters. Completed work is reviewed for effectiveness in meeting requirements and dealing with problems.

FACTOR 3. Guidelines - Level 3-4 - 450 Points

Guidelines include engineering and contractual regulations, manuals, technical publications, established procedures, and agency policy. The variety of the workload is such that the incumbent is frequently confronted with problems or unusual projects for which guidelines are inadequate or non-existent, requiring experienced judgment, initiative, and resourcefulness in adapting guidelines or developing the guidelines for first-of-its-kind type projects.

FACTOR 4. Complexity - Level 4-4 - 225 Points

Assignments involve many different and unrelated engineering or architectural processes and methods, covering a broad range of work in engineering functions of assigned projects. The incumbent must be versatile and innovative in adapting and modifying guidelines for unique projects for which technical expertise is not available elsewhere in the district. The work also involves considerable planning and coordination with related engineering fields.

FACTOR 5. Scope and Effect - Level 5-4 - 225 Points

The purpose of the work is to originate new and/or improved applications and strategies for engineering or architectural concepts, theories, and principles; to assess project and/or program effectiveness; or to develop criteria, procedures, or instructions for a particular functional or specialized area. The work has an impact on the feasibility, accuracy, adequacy, safety, economy, and efficiency of a wide range of Corps activities.

FACTOR 6. Personal Contacts & FACTOR 7. Purpose of Contacts - Level 3-C - 180 Points

Contacts are with other district engineers, contracting personnel, contractor's representatives, field personnel, and other agency engineers.

The purpose of the contacts is to influence and/or persuade persons or groups to comply with established policies or to accept established engineering methods.

Contacts with engineers and field personnel are to give and receive information, to coordinate work efforts, and to resolve technical problems.

FACTOR 8. Physical Demands - Level 8-2 - 20 Points

Work may require regular and recurring construction inspections, in which there is considerable amounts of walking, stooping, bending, and climbing.

FACTOR 9. Work Environment - Level 9-2 - 20 Points

Work may require regular and recurring exposure to moderate discomforts and unpleasantness, such as high levels of noise, high temperatures, or adverse weather conditions at projects and construction sites.

TOTAL POINTS: 2820 = GS-12 (2755-3150)

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

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1. Availability Pay Exemption - (e.g., Criminal Investigators, U.S. Customs and Border Protection pilots who are also Law Enforcement Officers).

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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.)

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3. Executive Exemption:

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a. Exercises appropriate management responsibility (primary duty) over a recognized organizational unit with a continuing function, AND

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b. Customarily and regularly directs 2 or more employees, AND

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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.

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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:

Duties of this position meet the criteria for professional exemption in 5 CFR 551.208.

CONDITIONS OF EMPLOYMENT & NOTES:

Valid state driver's license

Temporary duty travel up to 25%

Secret Clearance may be required depending on duty assignments. If a Secret clearance is required, the incumbent must sign a statement of understanding acknowledging this condition of employment

POSITION EVALUATION:

Not Listed