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Electronics Engineer 09

GS-0855-09

I. INTRODUCTION

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.

Serves as an electronics engineer providing a full range of engineering support to senior technical staff and performing projects of limited scope and difficulty designed to develop technical engineering competencies.

II. MAJOR DUTIES AND RESPONSIBILITIES

The engineer assists higher graded engineers and/or accomplishes limited phases of larger electronics projects assigned to higher graded engineers. Typical assignments include one or more of the following: planning, designing, developing, constructing, altering, costs estimating, inspecting, testing, or reviewing electronics circuit elements, components, systems and subsystems that encompass a wide assortment of electronics equipment used in such activities as detection, ranging, viewing, illumination, surveying, data processing and voice and data transmission.

Maintenance engineering assignments for in-service equipment or a complex of equipment comprising a system typically includes: investigating reports of post-installation equipment failures or unsatisfactory performance; analyzing and testing circuitry or components to arrive at a solution and determining the appropriate changes in design, overhaul, repair or testing; evaluating the effect of changes on operation and maintenance (checkout and inspection procedures and manual changes); collecting data and conducting reliability investigations of equipment or system being maintained to determine how long they will last without needing repair; and determining length of time required to get the equipment back into operation.

III. FACTOR LEVELS

1. Knowledge Required by the Position FL 1-6, 950 pts

Professional knowledge of electronics engineering principles and concepts, a sound understanding of standard scientific and engineering principles, practices, and methods; and the ability to adapt them to specific situations in order to perform the electronics engineering work involved in accomplishing limited phases of larger electronics projects or assisting senior engineers.

2. Supervisory Controls FL 2-3, 275 pts

Supervisor provides project objectives, priorities, time limitations, background and anticipated problems. The employee independently carries out most of the work, handling routine problems without assistance. The supervisor or senior engineer is available for consultation and advice for deviations from standard principles and practices. Completed work is reviewed for technical adequacy and soundness of results.

3. Guidelines FL 3-3, 275 pts

Guidelines consist of activity engineering manuals and publications, agency standards, guides and precedents. The guides are normally applicable but have gaps in specificity and applicability. The engineer is expected to be familiar with the guidelines, be able to interpret them and when necessary make adaptations of them for particular applications. Results are analyzed, and recommendations for changes are made.

4. Complexity FL 4-3, 150 pts

Assignments involve primarily small or conventional systems, but also include assisting higher graded engineers on large, complex projects. Work requires the independent application of a variety of established engineering practices. Some problems necessitate minor adaptation of standard techniques.

5. Scope and Effect FL 5-3, 150 pts

The purpose of the work is to investigate and analyze any of a variety of problems or conditions and to provide or recommend ways of dealing with them. The engineering determinations affect the design or operation of equipment or policy/program recommendations with regard to economy, efficiency, evaluation, feasibility, and safety or national security implications of the systems involved.

6. Personal Contacts FL 6-2, 25 pts

Personal contacts are with other engineers, scientists, and engineering technicians within the immediate organization.

7. Purpose of Contacts FL 7-2, 50 pts

Purpose of contacts is to plan and coordinate work efforts, discuss technical aspects of equipment and resolve problems concerning use, resolve questions on requirements and generally clarify problems and reach agreement on overall plans, procedure and schedules.

8. Physical Demands FL 8-1, 5 pts

Work is normally sedentary, although bending, climbing, and crawling are necessary on some assignments.

9. Work Environment FL 9-1, 5 pts

Work is usually performed in an office or laboratory setting.

TOTAL POINTS- 1885

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

IV. UNIQUE REQUIREMENTS

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