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Electronics Engineer 13

GS-0855-13

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.

This position is located in

Serves as a highly knowledgeable subject matter specialist providing electronics engineering expertise to an organization, project or team.

II. MAJOR DUTIES AND RESPONSIBILITIES

The engineer applies extensive background knowledge of electronics engineering as well as expert knowledge in his/her subject matter or functional area to provide engineering expertise to the resolution of problems, the development of approaches and the settlement of conflicts in their assignments. Duties typically include: - representing the activity or organization in reaching engineering compromises and agreements with engineers of other organizations and contractors; -planning and coordinating programs or projects which require innovation and originality; -devising methods and procedures which are often adopted for use and become the activity's established precedent; -reviewing, evaluating and advising on the effectiveness, technical adequacy and suitability of the work and proposals of others in resolving complicated and critical problems in their specialized area; -planning modifications to complex subsystems or major categories of equipment.

For activities related to systems modification, maintenance and operational oversight, assignments typically include: determining modifications to be made to salvageable existing equipment to bring up to required standards; determining requirements for new equipment; translating resulting subsystem plans into engineering tasks; preparing procedures, criteria and specifications for systems modification and for procurement and testing of new equipment; determining distribution of the subsystems, resolving difficult and controversial problems relative to interconnecting with other subsystems; maintaining liaison with the action agency to insure that new equipment which is developed complies with customer's requirements.

III. FACTOR LEVELS

1. Knowledge Required by the Position FL 1-8, 1550 pts

Mastery of advanced principles, techniques and practices of professional electronics engineering and of the various characteristics of electronics circuit elements, equipment, components and subsystems in order to provide expert engineering support to a full range of activities concerned with the the analysis, design, testing, procurement, installation or operation of complex electronics systems and equipment. Mastery of the theories, fundamentals and methods of engineering management in order to independently perform work where existing theories and techniques are not applicable.

2. Supervisory Controls FL 2-4, 450 pts

Supervisor gives assignments in general terms of objectives and priorities. The engineer receives assignments within his/her subject-matter or functional area without instructions. The engineer determines the nature of the question and issues involved and independently plans and carries out the investigation, analysis and details of the work. Highly unusual or controversial problems are handled in consultation with the supervisor, but in most

cases, the employee independently plans and carries out the work. Completed work is reviewed for adequacy in meeting objectives and to ensure conformance with agency policies.

3. Guidelines FL 3-4, 450 pts

Guidelines include such publications as agency regulations, technical literature, manufacturer's catalogs, and policy statements issued by the headquarters engineers. Technical guides have limited applicability to many problems encountered. As a technical specialist, the employee must exercise judgment and creativity in deviating from such traditional methods as may be available and adapts and develops new methods as required.

4 Complexity FL 4-5, 325 pts

Assignments involve work in a broad range of activities and highly specialized electronics engineering functions. Each project typically involves many, varied complex features. The employee must take actions and make decisions in solving highly complex technical and administrative and policy issues involved in implementing new systems and programs. The issues are diverse in nature and cover a number of essentially different electronics systems and equipment. The engineer must deal with several complex features including modifying original designs to solve interconnecting difficulties, scheduling requirements and other considerations necessary to integrate diverse electronics systems. The work involves many areas of uncertainty requiring development of new criteria, test methods and techniques.

5 Scope and Effect FL 5-4, 225 pts

The purpose of the work is to provide technical expertise in the analysis, design, testing, procurement, installation or operation of complex electronics systems. Assignments are concerned with solving unusual or controversial operational, design or policy issues and problems. Work has a direct impact on a wide range of the organization's mission essential electronic systems, subsystems and precedent setting policy decisions .

6. Personal Contacts FL 6-3, 60 pts

Contacts are with engineers in the same and other disciplines, projects and systems managers and laboratory and test site personnel, as well as with representatives of other governmental organizations, contractors, manufactures and vendors.

7. Purpose of Contacts FL 7-3, 120 pts

Contacts are for obtaining and exchanging information, coordinating projects and resolving technical scheduling and budgeting problems, and resolving program and policy issues. The engineer provides technical and management liaison to contractors, production facilities, and agency personnel involved in supporting assigned tasks and coordinates resolution of program issues with appropriate personnel. The engineer must use considerable tact and persuasion in convincing contractor, and agency personnel of the necessity of proceeding as required for attainment of project/program goals.

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- 3190

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

IV. UNIQUE REQUIREMENTS

(Last Updated : February 10, 1994)

