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## Electronics Engineer 14

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### GS-0855-14

#### 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 widely recognized subject matter expert providing broad engineering and specialized electronics engineering expertise to an organization, project or team.

#### II. MAJOR DUTIES AND RESPONSIBILITIES

Provides leadership and expert advice to other segments of the agency, to other agencies and to contract engineers/vendors on entire electronics engineering systems of major size and complexity. Applies extensive knowledge of electronics engineering in general, as well as expert knowledge in his/her subject matter area to provide advice and guidance in resolving technical and policy problems, developing new techniques and approaches, and settling controversy.

Typical assignments involve: - devising methods, procedures and approaches which have agency-wide influence in his/her area of expertise and in related areas - representing the activity/organization in reaching engineering compromises and agreements with engineers of other organizations and contractors -acting as the technical authority in the preparation and publication of advanced scientific findings and guidelines that are made available to other technical and scientific groups and agencies -planning and coordinating programs or projects which require innovation and originality -reviewing, evaluating and advising on the effectiveness, technical adequacy and suitability of the work and proposals of other engineers in resolving complicated and critical problems in their specialized area, - serving as a consultant to engineers and managers outside of the immediate organization on unusually difficult and controversial matters where the opinion of an engineer of high repute and unquestioned competence is considered vital.

#### 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 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 2-5, 650 pts

Works under general administrative supervision with independent responsibility for actions, decisions and commitments in the broad programs for which the employee is responsible. As the engineer is considered a technical specialist in his/her subject matter area, results of work are considered technically authoritative and normally accepted without significant change. Assistance is available from the supervisor in matter which may affect the policies of the organization.

### 3. Guidelines FL 3-5, 650 pts

Guidelines are broadly stated laws, administration regulations and policy statements; program/project directives and system specifications are available. Because much of the work is in unexplored areas or deal with unyielding problems, the guidelines often have very limited applicability to the work. Judgment and ingenuity must be exercised in deviating from traditional methods as necessary, and new methods adapted and developed as required. The employee is recognized as a technical authority in the development of applicable agency guidelines.

### 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 5-5, 325 pts

The purpose of the work is to provide expert technical advice and guidance to agency engineering personnel concerning unusual or critical problems, and to provide expertise and direction in the planning and development of new electronics engineering programs. Work performed affects other subject matter experts, related agency technical efforts nation-wide and significant public policy issues.

### 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 7-4, 220 pts

The purpose of contacts is to provide technical expertise on matters within the program area. Assignments also require active participation in high level conferences, negotiations, and meetings which have significant consequences in obtaining acceptance of new approaches to design or policy issues.

### 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- 3790

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

## **IV. UNIQUE REQUIREMENTS**

(Last Updated: November 4, 1994)