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Electronics Technician 12

GS-0856-12

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.

I. INTRODUCTION

Provides expert-level support for scientific or engineering operations or research serving as a specialist in a narrow aspect of electronic engineering.

II. MAJOR DUTIES AND RESPONSIBILITIES

Develops and devises improvements and alterations to the most complex technical equipment, instruments or software; modifies and conducts complex tests, and analyzes results. In a research environment performs development work and conducts research by application of established experimental and empirical methods and techniques, interprets results and selects or recommends approaches to design problem solutions. May plan, organize and execute limited projects which require the solution of both design and operational problems; and advise engineering and technical support staff on design and operational problems relating to equipment and processes.

III. FACTOR LEVELS

Factor 1 - Knowledge Required FL 1-7, 1250 pts.

Knowledge of theories, concepts, practices, methods and techniques of electronics engineering gained through intensive practical applications and experience, and of the capabilities, limitations, operations, design characteristics and functional use of a wide variety of types and models of electronic equipment and systems. Knowledge of specialized techniques and practices in order to: function as a recognized expert, develop innovative approaches and techniques for specialized applications, modify, adapt and design equipment, systems and instruments; complete and execute testing programs and to analyze the results of tests.

Factor 2 - Supervisory Controls FL 2-4, 450 pts

The supervisor, or senior personnel, assigns complete projects or tasks. Joint consultation results in the identification of the impact and scope of the assignment, unusual considerations, priorities and deadlines. Where applications of new/complex criteria and techniques occur, more specific guidance may be provided. Work is reviewed for general adequacy, conformity with project requirements and sound technical judgment.

Factor 3 - Guidelines FL 3-4, 450 pts

Available guides include operational regulations and procedures, manufacturer and vendor guidance, engineering literature, handbooks, etc., but are limited or entirely absent for applications to complex technical problems. Must utilize current theory and practice affecting electronics field.

Factor 4 - Complexity FL 4-5, 325 pts

Performs highly specialized technical duties which involve a wide range of different and unrelated processes and methods which are applied to a broad range of technical electronics and engineering activities. Expert judgment is required in the selection of possible approaches, methods and techniques. Creative and original thought must be used to diagnose systems problems and to locate, integrate or construct the components, subsystems and

instruments essential for proper operations. The advanced systems may encompass multiple engineering applications and numerous and frequent design changes.

Factor 5 - Scope and Effect FL 5-4, 225 pts

Performs a variety of technical assignments requiring practical engineering expertise in order to maintain or solve problems of operation, efficiency and reliability. The work impacts on the testing, design, adequacy and efficiency of the assigned and related systems and processes.

Factor 6 - Personal Contacts FL 6-3, 60 pts

Contacts are primarily with engineers, scientists, other technicians and support personnel within the organization or in other parts of the agency who work on the same or similar projects. Contacts also occur with parties outside of the agency such as vendors, contractors and technical representatives.

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

The purpose of the contacts is to provide expert advice on systems or projects, coordinate work efforts, resolve controversial technical problems, apprise management on status and progress of all aspects of the system or project, influence the adoption of conflicting methods or suggestions and negotiate agreements where there are competing interests and opinions among other experts.

Factor 8 - Physical Demands FL 8-2, 20 pts

The work requires some physical exertion, such as long periods of standing, recurring bending, crouching, stooping or the lifting of moderately heavy objects.

Factor 9 - Work Environment FL 9-2, 20 pts

Work involves regular and recurring moderate risks that may require the use of special safety precautions or devices. The incumbent works around machines, moving parts and other potentially hazardous items.

Total Points = 2920

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

IV. UNIQUE POSITION REQUIREMENTS

(Last Updated: November 4, 1994)

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