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Electronics Engineer (Development) 14

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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

This position serves as an electronics engineer providing expert authoritative subject matter expertise and advanced engineering expertise as a consultant or Project Leader to a project or team involved in the design, development, testing, evaluation or experimentation of various types of advanced state of the art electronics technology, processes and systems.

II. MAJOR DUTIES AND RESPONSIBILITIES

The engineer is a nationally recognized expert in the electronics engineering field (emphasis on data/telecommunications technology, analysis, and/or electromagnetic field theory) and as such provides technical expert consultant advice and analysis. The engineer typically is involved in the following or its equivalent:

- serving as a Project Leader in overseeing the conducting of advanced engineering analysis, experimentation, evaluation and development of state of the art equipment, instrumentation, materials and processes and/or performing advanced experimental and investigative activities designed to develop new and improved equipment and advancing the state of current technology. Serving as the expert on technical matters relating to the identification and procurement of mission related electronics equipment, coordinating the development of technical specifications to standardize electronic mission systems;

- analyzing technical studies to identify existing trends in data gathering/analytical hardware and software; designing and developing test and evaluation procedures; identifying future trends in technology and suggesting projects anticipating nation-wide program needs; assisting project leaders in isolating and defining problems to assure that the results of individual experimental and theoretical projects can be effectively utilized; preparing technical reports and papers for publication and presenting them at symposia and conferences; organizing and directing the development of advanced instrumentation systems electronics;

- acting as a project leader in experimental projects involving the measurement of physical, environmental and electromagnetic phenomenon (e.g. radio, atmospheric, hydrological and hydrographic data).

III. FACTORS LEVELS

Factor I - Nature of Assignment Degree E (5 pts)

As a nationally recognized expert consultant, the engineer serves as a Project Leader in state-of-the-art equipment development and acquisition providing major technical support to the agency, other Federal agencies, and private industry in such areas of electronics engineering as data/telecommunications, remote data acquisition, radio and microwave capability, software systems development, spectrum utilization, and high frequency wave technology. The breadth and scope of assignment are significant and typically require subdivision into separate phases as well as a team effort for resolution. The work involves high technology studies and places major emphasis on defining, synthesizing, presenting and extensive and penetrating investigations to explore new technology and reconciling many divergent and conflicting requirements and constraints.

Factor II - Supervision Received Degree E (5 pts)

Technical supervision is nominal. The employee has broad freedom and results are reviewed within the context of mission objectives. The engineer, whose findings are considered conclusive, is considered a technical authority within the agency as well as outside among the national technical community. The engineer deals with issues which represent the fundamental nature of the problems facing the community in such areas as spectrum utilization, wave propagation, data/telecommunications technology, microwave and high frequency wave characteristics, standards development and related policy initiatives or other comparable areas which are of major interest to Government agencies and U. S. industry.

Factor III - Guidelines and Originality Degree E (5 pts)

Guidelines are very limited, often non-existent, inadequate, or controversial due to the "the leading edge of technology" nature of the work. Major obstacles exist, both in available electronics technology and theoretical electronics and research, thus, requiring unusual degrees of creativity in resolving both ongoing technical engineering problems and as well as overcoming theoretical shortfalls. Work involves dealing with major technical and other issues, requiring outstanding critical judgment and the resolution of an array of major obstacles (policy, administrative and technical). The end product of the work efforts is the development or modification of major new equipment systems, and/or the substantial improvement to existing ones.

Factor IV - Qualifications and Contributions Degree E (10 pts)

The engineer's expertise encompasses a clear recognition as an electronics expert by the outside technical community including other Federal agencies, and private industry. The engineer acts as a spokesperson or in the role of chief investigator with technical committees cutting across broad organizational, government and industry lines. The incumbent plans, organizes and brings to fruition broad attacks on complex problems; the resolution of which results in clearly evidenced innovations which are of fundamental significance in advancing new technology and previously unattained developments. Work efforts may result in establishing new theories and in a synthesis of understanding of phenomena which opens the way for future developments in the field.

TOTAL= 25 pts

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

IV. UNIQUE POSITION REQUIREMENTS

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