



PORTLAND VA MEDICAL CENTER

Our mission is to honor America's veterans by providing exceptional health care that improves their health and well-being.



NOTICE OF VACANCY

POSITION TITLE: Biomedical Equipment Support Specialist (Imaging)

ANNOUNCEMENT #: MP-11-0066-ML

DIVISION: Facilities Management Service

LOCATION: Portland Division

SERIES & SALARY RANGE: GS-1601-7/9, Target 11; \$40,894 - \$78,674

OPEN DATE: 2/23/2011

CLOSE DATE: 3/15/2011

NUMBER OF VACANCIES: 1

POSITION INFORMATION: Permanent, Full-time, Tour of duty: 8am – 4:30pm, **Participant in Biomed Section On-call rotation pay.**

*** WHO MAY APPLY:**

- VA Career or career conditional employees
- VA permanent Title 38, Title 38 Hybrid employees and Veterans Canteen employees eligible under the Interchange Agreement

BARGAINING UNIT POSITION: YES

MAJOR DUTIES: The incumbent is assigned as a Biomedical Engineering Support Specialist in the Imaging Group of the Biomedical Engineering Section. The incumbent is responsible for on-site technical support, day to day coordination, and administration of the most highly complex equipment. This support includes pre-purchase evaluation, clinical applications, clinical training, technical training, utilization, installation, de-installation, maintenance, system restorations, network interfacing, modifications, accident investigation, life expectancy and replacement. The value of the Imaging systems totals over \$20 Million. These medical systems are a portion of the over \$59 Million total in medical equipment and systems that encompass the diversified Biomedical Engineering program under the supervisory control and direction of the Chief, Biomedical Engineering. The Specialist serves as a consultant to the clinical and administrative staff on technical principles, good manufacturing practices, as well as clinical applications. Through this support, the incumbent's position is critical to the delivery of high quality patient care. He/she provides on-site comprehensive, highly complex technical and professional services to ensure proper functioning of some of the largest, most complex and sophisticated medical systems in the Medical Center and all CBOCs used on a daily basis. These systems provide direct patient care that impacts the delivery of healthcare for normal and critical care patients throughout all clinical areas. The Incumbent is responsible for highly complex installations, calibrations, applications support, user training, preventative maintenance, troubleshooting, and systems safety of systems that fall under JCAHO compliance standards and/or Medical Physics Standards. The incumbent is responsible for duties of a broad scope and complexity. He/she is responsible for analyzing, diagnosing, developing, and planning. He/she must troubleshoot and correct system failures on complex digital based systems that have vitally interrelated and sometimes dispersed subsystems. Many of these systems are assembled from numerous constituent units or subsystems, which are themselves devices with 'an advanced' degree of complexity. The incumbent must have theoretical and practical knowledge in networking, electronics and medical instrumentation to perform. Medical Imaging Equipment supported by the incumbent may include patient related computer imaging and networking systems located in following areas. Exact assignments are determined based on assessments of workload. However, the incumbent must have minimal knowledge of all systems in order to be a first responder to equipment failures in the event that the primary responsible technician is absent.

QUALIFICATIONS:

- **Eligibility:** U.S. Office of Personnel Management [Qualification Standards](#) Handbook for GS-1601. Regulatory requirements such as "time-in-grade" and "time after competitive appointment" are applicable.
- **Basic Requirements:** Must be a U.S. citizen.

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- **Specialized Experience:** At least one year of experience that equipped the applicant with the particular knowledge, skills, and abilities (KSA's) to perform successfully the duties of the position, and that is typically in or related to the position to be filled. To be creditable, specialized experience must have been equivalent to at least the next lower grade level. Specialized experience includes, but is not limited to; demonstrated skill in calibrating and maintain biomedical equipment with an emphasis on Radiology and Nuclear Medicine equipment (CT scanner, MRI, special procedure rooms, cardiac catheterization lab, radiology/fluoroscopy rooms, scintillation cameras, general radiographic rooms, mobile x-ray and c-arms, diagnostic ultrasound, Gamma Cameras, Picture Archiving and Communications Systems, and other highly complex medical, equipment). Investigating and analyzing a variety of unusual conditions; resolving critical problems; and/or developing, testing, and implementing new technologies; isolation and definition of problem conditions and the installation and operation of peripheral devices or medical equipment in a computer networked environment. Applies practical knowledge of medical equipment and complex imaging, (X-ray, MRI, ultrasound, Nuclear), systems used in direct care of patients or in research. Knowledge of Picture Archiving and Communication System (PACS). Experience resolving critical problems; and/or developing, testing, and implementing new technologies; isolation and definition of problem conditions and the installation and operation of peripheral devices or medical equipment in a computer networked environment. Performed work that impacts warranty disputes, safety determinations, diagnostic or therapeutic success or failure, and expenditure of funds to repair, replace, or acquire highly sophisticated biomedical instrumentation systems. Accomplished in the calibration and performance of complex medical instrumentation, which may be made up of several subsystems.

- **Substitution of Education for Experience:** This education must have been obtained in an accredited business, secretarial or technical school, junior college, college or university. One year of full-time academic study is defined as 30 semester hours, 45 quarter hours, or the equivalent in a college or university, or at least 20 hours of classroom instruction per week for approximately 36 weeks in a business, secretarial, or technical school. Applicant must submit copy of transcripts with application to receive credit for substitution.

GS-7: 1 full-year graduate level education or superior academic achievement.

GS-9: Masters or equivalent graduate degree, or two full years progressively higher level graduate education leading to such a degree.

GS-11: Ph.D. or equivalent doctoral degree or 3 full years of progressively higher level graduate education leading to such a degree or LL.M., if related. If using education as a substitute for experience, please submit a copy of your college transcripts with application packet.

- Basis for Rating: Knowledge, Skills and Abilities

On a separate sheet of paper, provide a written, detailed response to each of the KSAs. Failure to respond to the rating factors may result in your application receiving a less than desirable rating. Answer only those KSAs for the grade level for which you are applying and please indicate on your application which grade you are applying. For example, if you are applying for the grade 11 position, answer only those questions that apply to the GS-11 position.

GS-7:

1. Knowledge of and experience in the fundamentals of analog and digital components and circuits, microprocessor circuits and electrical and electromechanical principles, computer networking fundamentals.
2. Skill in the use of precision measurement devices, i.e., oscilloscope, function generator, universal counter, amplifier, calibration standards, analyzers, manometer, etc.
3. Knowledge of analog and digital electronics including integrated circuits and microprocessors; mathematics; life and physical sciences (anatomy, physiology, chemistry, physics, mechanics), and X-ray Physics; and equipment safety standards (JCAHO, NFPA 99, CARF, VHA).
4. Ability to communicate courteously and effectively, both orally and written, utilizing medical terminology, in instruction/writing.
5. Ability to interpret biomedical and imaging equipment technical data.
6. Ability to troubleshoot, repair and calibrate complex biomedical imaging equipment.
7. Knowledge of computer equipment, computer operating principles and processes, repair and utility software applications, inventory, repair work order and word data-processing software.

GS-9:

1. Knowledge of and experience in the fundamentals of analog and digital components and circuits, microprocessor circuits and electrical and electromechanical principles, computer networking fundamentals.
2. Skill in the use of precision measurement devices, i.e., oscilloscope, function generator, universal counter, amplifier, calibration standards, analyzers, manometer, etc.

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3. Knowledge of analog and digital electronics including integrated circuits and microprocessors; mathematics; life and physical sciences (anatomy, physiology, chemistry, physics, mechanics), and X-ray Physics; and equipment safety standards (JCAHO, NFPA 99, CARF, VHA).
4. Ability to communicate courteously and effectively, both orally and written, utilizing medical terminology, in instruction/writing.
5. Ability to manage multiple priorities and respond to demands from several competing sources.
6. Ability to troubleshoot, repair and calibrate complex biomedical imaging equipment.
7. Knowledge of computer equipment, computer operating principles and processes, repair and utility software applications, inventory, repair work order and word data-processing software.

GS-11:

1. Ability to efficiently troubleshoot and repair mechanical and electronic (analog, digital, integrated circuitry, and transistor circuitry) problems in a variety of complex Biomedical Equipment.
2. Skill in calibrating Biomedical Equipment with an emphasis on Radiology and Nuclear Medicine equipment (CT scanner, MRI, special procedure rooms, cardiac catheterization lab, radiology/fluoroscopy rooms, scintillation cameras, general radiographic rooms, mobile x-ray and c-arms, diagnostic ultrasound, Gamma Cameras, Picture Archiving and Communications Systems and other highly complex medical equipment).
3. Ability to maintain complex, often computerized and networked medical imaging systems with an emphasis on Radiology and Nuclear Medicine Equipment (CT scanner, MRI, special procedure rooms, cardiac catheterization lab, radiology/fluoroscopy rooms, Picture archiving and Communications System (PACS), scintillation cameras, general radiographic rooms, mobile x-ray and c-arms, diagnostic ultrasound and other highly complex medical equipment).
4. Knowledge of analog and digital electronics including integrated circuits and microprocessors; mathematics; life and physical sciences (anatomy, physiology, chemistry, physics and mechanics) and X-ray physics; and equipment safety standards (JCAHO, NFPA 99, CARF, VHA).
5. Ability to communicate orally and in writing for the purpose of informational exchange, training and work documentation.
6. Ability to integrate Medical Center goals into work environment.
7. Ability to manage multiple priorities and respond to demands from several competing sources.

*** CONDITIONS OF EMPLOYMENT:**

- Although the duty station is shown in this announcement, it may be necessary to utilize the selected person's services at a different location within the Portland VA Medical Center commuting area if conditions require it in the future
- Applicants without prior federal service will be appointed at step one of the grade
- Eligible employees may be non-competitively reassigned to fill this position as an exception to merit promotion.
- Under Executive Order 11935, only United States citizens and nationals (residents of American Samoa and Swains Island) may compete for civil service jobs. Agencies are permitted to hire noncitizens only in very limited circumstances where there are no qualified citizens available for the position.
- If you are a male born after December 31, 1959, and are at least 18 years of age, civil service employment law (5 U.S.C. 3328) requires that you must register with the [Selective Service](#) System, unless you meet certain exemptions.
- A security clearance and a favorable suitability determination are required. Misconduct in prior employment, criminal, dishonest or disgraceful conduct, habitual use of intoxicating beverages, abuse of narcotics, drugs or other controlled substances, or reasonable doubt of loyalty to the United States are examples of reasons an offer of employment may be denied.
- Public transit subsidy benefits are available. Carpooling assistance is provided. However, single occupancy parking is limited on main Portland campus.
- This is a developmental position. If selected below the target level, employee may be promoted without further competition upon satisfactory completion of qualification and eligibility requirements.
- A drug test may be required for an applicant who is tentatively selected.
- A pre-employment physical examination will be required for an applicant who is tentatively selected.
- Employee selected must serve a one (1) year probationary period for managers/supervisors as contained in 5 USC 315, unless she/he has already served the required supervisory period.
- Applicants appointed to direct patient care positions must be proficient in spoken and written English as required by 38 USC 7402(d) and 7407(d).

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- This agency provides reasonable accommodations to applicants with disabilities. If you need a reasonable accommodation for any part of the application and hiring process, please notify the agency. The decision on granting reasonable accommodation will be on a case-by-case basis
- The United States Government does not discriminate in employment on the basis of race, color, religion, sex, national origin, political affiliation, sexual orientation, marital status, disability, age, membership in an employee organization, or other non-merit factor.
- It is the policy of the Department of Veterans Affairs that all Federal wage and salary payments are paid to employees by Direct Deposit/Electronic Funds Transfer (DD/EFT).

HOW TO APPLY:

Application forms may be obtained in Human Resources Management Service or on our [Portland VAMC](#) internet website.

Portland VAMC Permanent Internal employees:

1. [VAF 4078, Application for Promotion or Reassignment](#)
2. [VAF 4676a, Employee Supplemental Qualifications Statement](#) (due 3/22/2011)
3. [VAF 4667b, Supervisory Appraisal of Employee for Promotion](#) (due 3/22/2011)
4. Updated application; [OF 612, Optional Application for Federal Employment](#) (attach additional sheets of paper if needed for additional job experience (in same format as application)), or Resume.
5. [MPQ – Merit Promotion Questionnaire](#) is optional but recommended if you have qualifications pertaining to the position applied for but are not in your OPF.

All application packets must be received in Human Resources by Close of Business (COB) on 3/15/2011.

- Applications may be emailed to: PortlandVAJobs@va.gov Subject: MP-11-0066-ML
- Received by Fax to: 503.273.5029, ATTN: MP-11-0066-ML
- Mailed to: PO BOX 1034, Portland, OR 97207 ATTN: MP-11-0066-ML
- Brought in person to: Portland VA Medical Center at 3710 SW US Veterans Hospital Road, Portland, OR 97239, Human Resources Building 16, Room 300

Thank you for your interest in the Portland VA Medical Center, for more career opportunities please visit:
[Portland VA Human Resources](#) or [USAJobs](#).

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