

VA NEW ENGLAND HEALTHCARE SYSTEM

OBJECTIVE

This document highlights the requirements, technical specifications, and services being requested by the Department of Veterans Affairs (VA) Medical Center(s) listed below for consideration towards purchase of positron emission tomography/computed tomography; commonly referred to as PET/CT. Offerors under this proposal shall provide all labor, material, parts, tools, software, project management and equipment necessary to furnish and install a fully functional PET/CT in the following medical center(s).

- VA West Haven, Connecticut

The implementation of this system may require construction, which should it be needed will occur through a separate purchase order and process. All offerors are expected to facilitate the design process by providing guidance, medical equipment drawings, and any other information relevant to the required design for proper installation of the system regardless of whether construction is part of this procurement.

DEFINITIONS

VistA Veterans health Information Systems and Technology Architecture - is VA's award winning Health Information Technology system. It provides an integrated inpatient and outpatient electronic health record for VA patients, and administrative tools to help VA deliver the best quality medical care to Veterans. This serves as the VA's HIS/RIS.

PROJECT MANAGEMENT

This procurement may include turn-key construction to renovate and/or modify current space to meet needs of installing the specific type PET/CT and ancillary equipment purchased. The specifications and requirements for construction will be unique to each facility and will be outlined in a separate statement of work.

MEDICAL EQUIPMENT TECHNICAL SPECIFICATIONS

The following technical specifications represent a minimum set of requirements. Offerors must reply outlining specifically how they meet the requirements. Offerors must submit responses for PET/CT in a format that is easy to interpret by a common lay person. Software and hardware options not listed as part of the base/quoted system should be listed separately with their associated cost

- System
 - Wide gantry opening to accommodate large patients
 - Crystal: BGO with LYSO/LSO preferred
 - 16cm coverage with 21cm or better preferred
 - Patient coverage 6 feet or greater
 - Field upgradable platform
 - Intrinsic quality assurance for sensitivity and detectability
 - CT QC phantom
 - Low dose CT with iterative reconstruction
 - Low dose/High count rate PET
 - Motion correction software
 - Respiratory gating

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- 16 slice diagnostic CT (or better) with fast rotation speed(<.5sec)
- Table:
 - 400lbs capacity or greater
 - Bariatric table (option)
- Patient comfort / safety features such as table pads, head holders, etc.
- Injector software and hardware
- Computer for Acquisition and Processing
 - PC (>1250 GB hard drive for processing, at least 8GB DDR3 RAM)Color Monitor: \geq 17 inches
- Workstation for image interpretation
 - PC (>250 GB hard drive and 8 GB DDR3 RAM)
 - Color Dual Monitor: > 17 inches each monitor
 - Software for oncology, cardiology, and general diagnostic viewing and manipulation
- Uninterrupted Power Supply for:
 - Camera Systems
 - Acquisition Workstation
 - UPS adequate to back up SPECT acquisition data
- Software
 - Solution for fast cardiac imaging
 - ECG triggering software
 - CT artifact reduction software
 - Noise reduction PET software
 - Oncology Advanced software
 - List mode acquisition/processing software
 - Lesion localization and quantification and monitoring software
 - Cedars-Sinai or equivalent cardiac software package for PET-CT
 - Neurology quantitation software for PET/CT brain imaging
 - Monitoring of Dosage- The system must be able to supply a technology that allows for monitoring and tracking of radiation dose provided to a patient; DICOM structured reporting is preferred. Ability to interface with PS360 for inclusion of dose data is also preferred.
 - Dose Reduction- The system must have systems in place to facilitate regular protocol optimization and reduced radiation dose to the patient
 - Security- Ability to protect sensitive patient data through the use of unique user authentication.

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EDUCATION/TRAINING TO BE PROVIDED

The following is a list of education and training options that each medical center may be interested in purchasing along with their scanner. Offerors are encouraged to list out their education and training options that can be provided.

- Clinical Education
 - At least one (1) week of onsite training for the technologist(s) from each medical center with options for additional training (i.e. 2 weeks on-site to be used in the next 2-3 years). (*Option*)
 - On-going Clinical education for technologist(s) from each medical center via on-line, webinar, etc. (*Option*)
 - Clinical phone applications support for the technologist(s) from each medical center.

- Clinical or Biomedical Engineering Training- Biomedical Engineering training for one (1) Biomedical Engineering Support Specialists (technicians) from each medical center at Offeror's training location with options for additional training. (*Option*)

GRAPHICS WORKSTATIONS AND ADVANCED SOFTWARE

As an option to the purchase, the Offeror's product should offer advanced graphics workstations and software if not already included in the base system.

NETWORKING CAPABILITIES

The Offeror's product must be able to meet the following network capabilities.

- Must be on the VistA Imaging Approved DICOM Modality Interfaces list. [VA DICOM Website](#)
- Must have the ability to interface with hospital Picture Archiving and Communication System (PACS) and third (3rd) party post-processing workstations, specifically Carestream's PACS product.

The Offeror is required to submit the following documentation along with their proposal.

- A complete Manufacturer Disclosure Statement for Medical Device Security (MDS²) form. See attachment A.
- A complete VA Directive 6550 Pre-Procurement Assessment form. See attachment A.

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SERVICE

VPN/Remote Access – The vendor shall provide, at no additional charge, any and all equipment service programs, such as remote diagnostics, during the warranty period. The vendor shall provide post-warranty remote diagnostic service program as an “Add Option” with the offer. The system shall provide Vendor Remote Diagnostics via VPN. Vendor shall utilize the national Site-to-Site VPN, or the vendor shall work with the Office of Cyber and Information Security and the Boston VAMC Information Security Officer to establish a Client-Based VPN.

- Service and Operator Manuals – The vendor shall provide the following documentation for the proposed system:
 - Two (2) copies of operator's instruction manuals per unit purchased
 - Two (2) copies of complete technical service manuals including detailed troubleshooting guides, necessary diagnostic software, service keys, schematic diagrams, and parts lists
 - Two (2) copies of a system manager’s manual outlining back-up procedures, managing privilege group limits, routine tasks, etc.

EVALUATION CRITERIA

Offerors will be evaluated on the following factors. There is no specific ranking for any factors listed.

- General System Offering (Functional Capabilities and Technical Performance as Outlined Above and Additional Features Listed)
- Radiation Dose Monitoring and Reduction Capability
- Training Plan (both Clinical and Technical)
- Anticipated Reliability and Serviceability
- Past Performances
- Human Factors Design (i.e. Ease of Use, Intuitive Operation, Capabilities, and Workflow Efficiencies)
- Implementation Management and Schedule
- Installation of the Scanner into the Current Space
- Price

It is understood that every Offeror’s product(s) may differ from the specifications outlined in this document. As such, Offerors are encouraged to propose these variances. It is required that each Offeror clearly identify how they meet the specifications listed above. It is also required that, whenever a variance from these specifications occurs, the proposed item meets or exceeds the specified characteristics or level of performance. The Offeror shall also identify each product line item that differs from the specifications and list its associated cost.

FURTHER CONSIDERATION

Offeror’s are provided the opportunity to obtain further details from the VA New England Healthcare System in order to better tailor the product quote(s). All requests for information derived from any Offeror will be shared with each Contracted vendor per the National Acquisition centers supplied vendor list for this modality.