

VA NEW ENGLAND HEALTHCARE SYSTEM
STATEMENT OF WORK
COMPUTED TOMOGRAPHY SCANNERS



September 2016

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 centers listed below for consideration towards purchase of a computed tomography scanner; commonly referred to as a CT scanner. The CT scanners will either replace or be an upgrade to current CT scanners installed. Offerors under this proposal shall provide all labor, material, parts, tools, software, project management and equipment necessary to furnish and install a fully functional CT in each of the following medical centers.

- VA Connecticut Healthcare System – Newington Campus
- VA Manchester Medical Center
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DEFINITIONS

The following are definitions to terms used within this document.

TERM

DEFINITION

Standard Scanner:

A CT scanner that typically has the capability to provide 80 slices or greater in less than one second and is used, among things, for routine neuro and body imaging, pulmonary imaging including “low dose” screening exams, multi-organ trauma evaluation, and limited cardiovascular imaging.

Advanced Scanner:

A CT scanner that typically has the capability to provide a high slice count in less than one second and is used for large volumetric studies, has advanced applications, and is optimized for ultrafast imaging as may be seen with coronary angiography, cerebral perfusion studies and other advanced cardiovascular imaging, in addition to all of those types of exams done by “standard scanners.”

PROJECT MANAGEMENT

This procurement will include turn-key construction to renovate and/or modify current space to meet needs of installing the specific type CT scanner 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 for each of the two (2) CT scanners; to include both standard and advanced scanners. Offerors must reply outlining specifically how they meet the requirements for both a standard and advanced scanner. Offerors must submit two (2) separate responses for the two (2) different types of scanners in a format that is easy to interpret by a common lay person unless their product offers an optional upgrade path that can be included in the

VA NEW ENGLAND HEALTHCARE SYSTEM

options portion of the response. Please list all available software and hardware options available above and beyond the quoted base system(s), with their associated costs, in a separate “options” section.

- Hardware
 - Channel Size
 - Standard Scanner- The channel size must be greater than or equal to 80 channels.
 - Advanced Scanner- The channel size must be greater than or equal to 128 channels.
 - Bore Size
 - Standard Scanner- The bore size must be greater than or equal to 70 cm.
 - Advanced Scanner- The bore size must be greater than or equal to 72 cm.
 - Table Weight
 - Standard Scanner- The table must be capable of supporting an operational weight of 450 pounds or greater. The table is able to support an operational weight of 500 lbs. (*Option*)
 - Advanced Scanner- The table must be capable of supporting an operational weight of 500 lbs or greater.
 - Table Movement
 - Standard Scanner- Standard linear travel (Z-axis) with power driven and manual movement capabilities laterally.
 - Advanced Scanner- The table must have a floating capability, i.e. lateral movement in addition to the requirements of a Standard Scanner table.
 - Table Height
 - Standard Scanner- The requirement is the same as the advanced scanner.
 - Advanced Scanner- The table must be able to be lowered to at least 20.3 in. and raised to 39 in or more.
 - Detector Size
 - Standard Scanner- The detector size must be greater than or equal to 4 cm.
 - Advanced Scanner- The detector size must be greater than or equal to 8 cm.
- Software Solutions
 - Protocols- The system must have the ability to lock protocols.
 - 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 required at a minimum.
 - Dose Reduction- The system must have systems in place to facilitate regular protocol optimization and reduced radiation dose to the patient, including but not limited to iterative reconstruction technology.
- Options:
 - CT fluoroscopy
 - Lung CAD
 - Dose tracking
 - Contrast injector with dose recording and RIS/PACS interface

EDUCATION/TRAINING TO BE PROVIDED

VA NEW ENGLAND HEALTHCARE SYSTEM

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 with the two (2) scanner types.

- Clinical Education
 - At least two (2) weeks of onsite training for the technologist 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*)
 - Clinical education for one (1) CT technologist from each medical center at Offeror's training location to include travel and accommodation with options for additional training. (*Option*)
- 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 to include travel and accommodations 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. This should allow for features including, but not limited to CT colonoscopy, CT perfusion, Cardiac software, lung nodule segmentation, volume calculation and tracking, CAD applications and other advanced 3D image-processing features. Other optional software could include "model based" iterative reconstruction. Regardless of vendor provided functionality the scanner software must be capable of integration with major third party post processing vendors.

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 B.

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.

VA NEW ENGLAND HEALTHCARE SYSTEM

The system shall provide Vendor Remote Diagnostics via VPN. Vendor shall utilize the VA 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.