

# Equipment Specifications

## Computed Tomography Scanner

VISN15/John J. Pershing VA Medical Center

657-B93016

### A. REQUIREMENT OVERVIEW

The Poplar Bluff VA Radiology Department is seeking to procure a Computed Tomography X-Ray system. It is intended to produce cross-sectional images of the body by computer reconstruction of X-ray transmission data taken at different angles and planes, including Axial, Cine, Helical (Volumetric), Cardiac, Spectral, and Gated acquisitions for all patient ages. The system is indicated for head, whole body, cardiac and vascular x-ray Computed Tomography applications. The device output is a valuable medical tool for the diagnosis of disease, trauma, or abnormality and for planning, guiding, and monitoring therapy.

Facility	Quantity
657A4 Poplar Bluff VAMC	1

### B. TECHNICAL REQUIREMENTS

#### 1. Unit physical specifications

a. Minimum number of slices	256 for CCTA - Volume Capability
b. Minimum gantry aperture [cm]	80
c. Minimum detector width [mm]	40
d. Minimum detector field of view [cm]	50
e. Table height range from floor [cm]	50-99
f. Maximum patient weight supported [lbs]	320 LBS
g. Minimum 360° rotation time [s] – Vendors are encouraged to propose the fastest 360° rotation available.	0.5
h. Other physical specifications	Visual and hearing impairment options, compensation and lateral shift

#### 2. Additional specifications

<input checked="" type="checkbox"/>	a. The CT scanner shall provide the ability for the user to independently operate the table, gantry, and CT fluoroscopy mode from the control room.
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<input checked="" type="checkbox"/>	b. The CT scanner shall provide the ability for the user to independently operate the table, gantry, and CT fluoroscopy mode while performing biopsy or patient-related exams.
<input checked="" type="checkbox"/>	c. Dual Energy Imaging (either at the radiation source or in the detector)
<input checked="" type="checkbox"/>	d. Ability to display CTDIvol (dose) before scan
<input checked="" type="checkbox"/>	e. Ability to display DLP (dose) after exposure
<input checked="" type="checkbox"/>	f. Modeled iterative reconstruction/Noise reduction. Vendors are encouraged to propose the greatest available noise reduction.
<input checked="" type="checkbox"/>	g. Retrospective and prospective gated ECG Coronary CCTA
<input checked="" type="checkbox"/>	h. ECG monitor
<input checked="" type="checkbox"/>	i. Triggered studies using an ROI gate place in the appropriate vessel for CTA and CCTA
<input checked="" type="checkbox"/>	j. Gantry- or ceiling-mounted contrast injector with proven reliable synchronicity.
<input checked="" type="checkbox"/>	k. Full System UPS
<input checked="" type="checkbox"/>	l. Power conditioning (as defined by vendor)
<input checked="" type="checkbox"/>	m. Ability to lock protocols
<input checked="" type="checkbox"/>	n. Ability to facilitate regular protocol optimization and reduced radiation dose to the patient, including but not limited to iterative reconstruction technology
<input checked="" type="checkbox"/>	o. Gantry tilt
<input checked="" type="checkbox"/>	p. Ceiling-mounted contrast injector
<input checked="" type="checkbox"/>	q. Other specifications – Injector sync

### 3. Workstation Requirements

<input checked="" type="checkbox"/>	a. Acquisition Workstation(s) Qty	1
<input checked="" type="checkbox"/>	b. Minimum acquisition workstation monitor size [in]	24 in Qty 2
<input checked="" type="checkbox"/>	c. Minimum acquisition workstation hard drive size [TB]	1 TB
<input checked="" type="checkbox"/>	d. Minimum number of processing workstations	1
<input checked="" type="checkbox"/>	e. Minimum processing workstation monitor size [in]	21
<input checked="" type="checkbox"/>	f. LCD monitor(s)	
<input checked="" type="checkbox"/>	g. UPS for the acquisition workstation	
<input checked="" type="checkbox"/>	h. UPS for the processing workstation(s)	
<input checked="" type="checkbox"/>	i. Sit/stand and horizontal/vertical monitor flexibility	

### 4. Advanced Applications

<input checked="" type="checkbox"/>	a. CT Fluoroscopy
<input checked="" type="checkbox"/>	b. CT Cardiac
<input checked="" type="checkbox"/>	c. Lung CAD



<input checked="" type="checkbox"/>	d. CT Colonoscopy
<input checked="" type="checkbox"/>	e. Dose Tracking
<input checked="" type="checkbox"/>	f. Integration to Advanced Visualization System – VITREA

Each vendor is to respond with advanced applications that meet the criteria listed above. Please include all other advanced applications offered by your company in the optional section on the quotes.

#### 5. Security/Connectivity requirements

<input checked="" type="checkbox"/>	a. OEM-supported operating system
<input checked="" type="checkbox"/>	b. Latest DICOM print, store, commit, radiation dose structured report (RDSR), and modality worklist
<input checked="" type="checkbox"/>	c. Encrypted hard drive
<input checked="" type="checkbox"/>	d. PACS compatibility – [Philips Intellispace]
<input checked="" type="checkbox"/>	e. HL7 Integration (HIS/RIS)

#### 6. Added Value

Specifications listed below are not required, but preferred. Vendors who do not include the below specifications in the submitted offer will not be docked or excluded from consideration. Specifications listed below will be evaluated based on added value.

<input checked="" type="checkbox"/>	a. Additional year(s) of warranty
<input checked="" type="checkbox"/>	b. Post-warranty remote diagnostic service program
<input checked="" type="checkbox"/>	c. Version/platform long-range plan

## C. TRAINING REQUIREMENTS

#### 1. Clinical Training

<input checked="" type="checkbox"/>	a. On-site clinical applications training for [2] technologists during go-live
<input checked="" type="checkbox"/>	b. On-site follow-up clinical applications training for [2] technologists once technologists have hands-on experience with the system
<input checked="" type="checkbox"/>	c. Off-site clinical applications training for [2] technologists
<input checked="" type="checkbox"/>	d. Technologists who complete the clinical applications training shall receive continuing education credits (CMEs).

#### 2. Biomedical Technician Training

**Please reference the “Instructions to Offers” section 2.8.g for further information about the type of information to provide by equipment type not by specific request. Please also reference the “Instructions to Offers” section 7.3.3. for response format.**



Technical training information to include detailed information about the curriculum and length of the biomedical technical training required for each equipment type.

Although the NAC will not award this training along with the equipment, it is imperative that the customer is informed that this training is available. Vendors must demonstrate that they can provide any required off-site training, therefore off-site training should be quoted as an optional item. Off-site training will be purchased at the time of need via a modification (if the original order remains open) or via a separate order. No travel expenses for any VA employees will be included in any HTME equipment or training order.

## **D. SERVICE REQUIREMENTS**

1. VPN/Remote Access – The vendor shall provide 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. The vendor shall either utilize the VA national site-to-site VPN or work with the Office of Cyber and Information Security and the VAMC Information Systems Security Officer to establish a client-based VPN.
2. Service and Operator Manuals – The vendor shall provide the following documentation for the proposed systems:
  - a. Two (2) copies of operator instruction manuals (one (1) electronic and one (1) physical copy)
  - b. Two (2) copies of a service manuals (one (1) electronic and one (1) physical copy)\*Vendors can include the physical copy as a priced line item in their quote as applicable.
3. Minimum Warranty – The system and accessories shall be covered under the manufacturer’s warranty and shall include all parts and labor for one year following acceptance by the VAMC. This warranty must include PMs as required by the manufacturer. The manufacturer’s factory-trained field service representatives shall perform installation and maintenance during the warranty period.

Vendors are encouraged to include any offerings for service, warranty, and training that may exceed the minimum requirements, to include information on their service support structure during and after the warranty period. Vendors who do not include any added value offerings for service, warranty, and training will not be docked or excluded from consideration. However, any such offerings will be evaluated based on added value.

## **E. OTHER INFORMATION/DOCUMENTATION REQUESTED**

**Please reference the “Instructions to Offers” section 2.8a-h for further information about the type of information to provide by equipment type not by specific request. Please also reference the “Instructions to Offers” section 7.3.3. for response format.**

1. Completed pre-procurement assessment form (6550 Appendix A)
2. Completed Manufacture Disclosure Statement for Medical Device Security (MDS2) form
3. Federal Information Processing Standard (FIPS) 140-2 certification
4. Product brochures
5. Technical specification sheets, to include dimensions and weight of the system
6. Typical drawings (pdf version of the CAD drawings)
7. Technical training- Biomedical: information to include detailed information about the curriculum and length of the biomedical technical training required for each equipment type.



- Although the NAC will not award this training along with the equipment, it is imperative that the customer is informed that this training is available. Vendors must demonstrate that they can provide any required off-site training, therefore off-site training should be quoted as an optional item. Off-site training will be purchased at the time of need via a modification (if the original order remains open) or via a separate order. No travel expenses for any VA employees will be included in any HTME equipment or training order.
8. Support information to include your company's support structure during and after the warranty period
- On-line or telephonic applications support and availability (include third party coverage)
  - A listing of field service engineer locations and availability
  - A listing of part depots

## F. TRADE-IN

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|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | a. VA has no trade-in units to offer. |
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