

Notice Type: Sources Sought

This is a SPECIAL NOTICE ANNOUNCEMENT ONLY. The Department of Veteran Affairs (VA), VISN 8 Network Contracting Office for the Malcom Randall VA Medical Center, 1601 S.W. Archer Road Gainesville, Florida 32608 is seeking potential sources for research and information purposes only. The Government will not entertain quotes and no award will be made from this special notice

Place of Performance:

Department of Veterans Affairs
Malcom Randall VA Medical Center
1601 S.W. Archer Road
Gainesville, FL 32608

Purpose and Objectives:

The intent of this Special Notice is to identify potential sources that supply/provide the specified description of Rodent Imaging System supplies/services listed below in the statement of need:

Statement of Need:

Technical Specifications:

Equipment must be compatible with existing MR Solutions cryogen-free MRI

Must allow for sequential PET/MR

Must fit small to large bore MR

Must be able to plug and play

High Pet Resolution: 0.7mm

Must have high sensitivity

Must be able to use for mouse to whole body rat imaging

Equipment must come with Motorized bed

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|-----------------------|------------|
| MR Bore Compatibility | ≥ 17 cm |
| Magnet strength: | up to 9.4T |
| Removable from MR | Yes |
| Detector Ring Design | Stationary |

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|---|---|
| Inner Diameter | 120,0 |
| Transaxial. FOV (mm) | 80,0 |
| Axial FOV (mm) | 50,40 |
| aFOV (mm) with motorized bed | 300,00 |
| Crystal Material | LYSO/LYSO |
| Crystal Pitch (mm) | 1,68 |
| Crystal Dimension (mm) | 1.605 x 1.605 |
| Crystal Thickness (mm) | 10 (4 top, 6 bottom) |
| # of Modules | 8 |
| Total # of Crystals | 13 928 |
| PMT | Silicon PM |
| Spatial Resolution with 3D OSEM (mm) | 0,7 |
| Spatial Resolution with FBP (mm) | 1.4 |
| Depth of Interaction | Yes – True DOI |
| DOI: Base on hardware configuration (Not on Monte-Carlo simulation) | Yes, dual layer of crystals with ½ pixel offset between |
| Reconstruction Algorithms | FBP, 2D-OSEM, 3D-OSEM |
| 3-D Corrections Applied | Attenuation correction, Random, Scatter, Dead Time, Decay, Positron Range, Normalization, Quantification, Energy Calibration, Energy Discrimination |
| Absolute Sensitivity | 4,56% |
| Energy Resolution | 13,10% |
| NEC mouse phantom @ peak | 170 Kcps |
| NEC mouse phantom @ 3.7MBq | 51 Kcps |
| NEC rat phantom @ peak | 42 Kcps |

| | |
|------------------------------|-----------------------|
| NEC rat phantom @ 10 MBq | 29 Kcps |
| Timing Resolution (FWHM, ns) | 1 ns |
| Uniformity | 6% |
| Spill Over Ratio (Air) | 9.2% |
| Spill Over Ratio (Water) | 7.5% |
| Attenuation Correction | MR AC |
| Gating (PET) | Cardiac + Respiratory |
| List Mode Acquisition | Yes |
| Weight | 15kg |

Responses must be emailed to:

Please list your socioeconomic category in your response.

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Contracting Office Address:

Department of Veterans Affairs
VHA Regional Procurement Office (RPO) - East
Network Contracting Office (NCO) 8
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Gainesville, FL 32601

Point of Contact:

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Contracting Officer