

**SOURCES SOUGHT**  
**May 30, 2012**

Battelle Memorial Institute, Pacific Northwest Division, management and operations contractor of the U.S. Department of Energy's Pacific Northwest National Laboratory (PNNL), in Richland, Washington, is requesting interest from prospective offers to provide the following:

A (scanning) transmission electron microscope ((S)TEM).

- The microscope should have a field emission gun, TEM and STEM detectors, EDX detector, and integrated tomography acquisition capabilities in both STEM and TEM modes (this must include dynamic focusing).
- The TEM point resolution should be better than 0.25nm and the information limit should be 0.15nm or better.
- The STEM HAADF resolution should be better than 0.2nm. 200kV accelerating voltage is preferred.
- The tomography acquisition software must provide the ability to calibrate the magnification, the stage shift, the image shift, the focus scale, the eucentric height, a holder calibration, and a calibration between the optic axis of the microscope and the rotation center of the holder in STEM mode (and the equivalent calibrations in TEM mode).
- The tilt range achievable using a tomography holder must be +/- 80 degrees.

**To create a bidder's list, please send the following information to PNNL by close of business, Wednesday, June 20, 2012:**

Your name

Company

Address

Phone number

Email

Business size Small or Large (from NAICS code 334516, over 500 employees is large)

Send to:

Doug Akers, Division Contracts Manager

509/372-6722

[Doug.akers@pnnl.gov](mailto:Doug.akers@pnnl.gov)

Andrea Fernandez, Sr. Contracts Specialist

509/375-6534

[Andrea.fernandez@pnnl.gov](mailto:Andrea.fernandez@pnnl.gov)

Kim Massie, Sr. Contracts Administrator

509/372-6727

[Kim.massie@pnnl.gov](mailto:Kim.massie@pnnl.gov)

We will contact you when we are ready to place the RFP. We look forward to hearing from you!