



Picometer-Resolution Imaging and Spectroscopy Microscope (PRISM)

PI: Bradley De Gregorio/US Naval Research Laboratory

Description of Facility

- Aberration-corrected scanning-transmission electron microscope (STEM) housed in the Nanoscience Institute at the US Naval Research Laboratory (NRL)
- Nion UltraSTEM 200-X microscope, equipped with electron energy-loss spectrometer (EELS), direct electron detector, and energy-dispersive X-ray spectrometer (EDS)
- 20% instrument time available to NASA users
- Microscope to be operated by NRL collaborator
- NASA users must be able to pass a background check for laboratory access



PRISM instrument at NRL

How to use the facility

- Send requests for collaboration to PI
- Requests are prioritized on a first-come-first-served basis
- Facility use is free to NASA users for initial proof-of-concept study. Continued use of facility will require a sub-contract to NRL for microscope and personnel time.
- NRL is a US Department of Defense facility, with strict personnel and information access controls. All data generated by PRISM must be cleared by NRL Security staff prior to public release.

Contact information:

- US Naval Laboratory, 4555 Overlook Avenue SW, Washington, DC 20375
- POC: Bradley De Gregorio (bradley.degregorio@nrl.navy.mil, (202) 767-5659)
- Alternate POC: Kate Burgess (kate.burgess@nrl.navy.mil, (202) 767-2075)

Cleared for public release.