

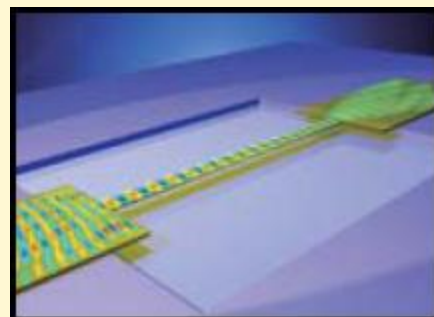
The NanoTech User Facility at the Center for Nanotechnology was established in 1998 to provide the Pacific Northwest nanotechnology community with access to advanced characterization and nanofabrication tools. In 2004, NTUF expanded its role to national level by becoming one of thirteen nodes of the NSF sponsored National Nanotechnology Infrastructure Network (NNIN). The mission of NTUF within NNIN is to provide access to emerging nanoscale tools with an emphasis on the applications of nanotechnology in biology and life sciences. In addition, NTUF coordinates network-wide interactions with the NSF Ocean Observatories Initiative and is in charge of energizing research in underwater sensing made possible by recent advances in nano- and microtechnology.

The NTUF occupies over 3,000 sq ft of newly renovated laboratory space equipped with research tools and facilities targeted towards the investigative needs of nanobio users. Since 2008, NTUF operates jointly with the Washington Technology Center Microfabrication Laboratory, which provides access to complementary photolithography, thin-film deposition, plasma and chemical etching, and characterization processes. We operate as an open facility available to users from both academia and industry.

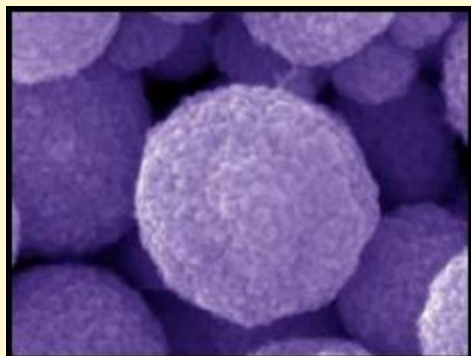
NTUF Research Tool Inventory

Imaging Tools: FEI Sirion SEM, Multimode AFM/STM, Dimension 3100 SPM, FEI Tecnai TEM, Leica EM UC6, Gatan Solarus 950, Zeiss LSM 510NLO, Renishaw Raman Microscope, Leica DMIRBE, Biacore SPR.

Fabrication Tools: Rapid Prototyping, Soft Lithography, E-beam Lithography, Oxford OpAL ALD.



Direct detection of optical forces in an integrated silicon photonic circuit.



Dye-sensitized solar cells made of micro-size aggregate ZnO nanocrystallites or TiO₂ nanotubes.



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