Scanning and Probing Microscopy

Environmental Closed Loop Atomic Force Microscope - Asylum MFD-3D-BIO
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Ambient Scanning Probe Microscope - VEECO Multimode V
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Near Field Optical/Atomic/Confocal/Confocal Raman/Scanning Probe Microscope - WiTec Alpha Combination
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Low Energy Electron Microscope III (LEEM) at NSLS - Elmitec
Cyber Security Training – GE-CYBERSEC
General Employee Radiological Training – TQ-GERT
Photon Sciences NSLS Safety Module - PS-ESH-NSLS-SFTYMOD

Low Energy Electron Microscope V (LEEM) - Elmitec
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Low-Temperature UHV Scanning Tunneling Microscope (no laser) - Createc
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Low-Temperature UHV Scanning Tunneling Microscope (with laser) - Createc
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP

Oxygen Deficiency Hazard – TQ-ODH
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Variable Temperature UHV Scanning Tunneling/Atomic Force Microscope – RHK
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Optical Microscopy

Low-Temperature Confocal Microscope - Attocube
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Confocal fluorescence microscope and visible laser/NIR spectral & lifetime imaging multiphoton - Leica SP5
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Laser Safety – TQ-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Time and Spectrally resolved single molecule fluorescence detector – Olympus
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Total Internal Reflection Fluorescence System (TIRF) - Olympus IX81 with 3 colors excitation
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Laser Safety – TQ-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Epifluorescent and Polarized Microscope - Olympus BX51
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Benchtop light microscopes - one with motorized stage & digital readout – Nikon (*Cleanroom*)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC

Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Benchtop light microscope – Zeiss (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Electron Microscopy

Environmental Transmission Electron Microscope (E-TEM) - FEI Titan 80-300
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Compressed Gas – TQ-COMPGAS-1
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Scanning Transmission Electron Microscope (STEM) - Hitachi HD 2700C
Cyber Security Training
Laboratory Standard
Hazardous Waste
Compressed Gas
Cryogen Safety
Electrical Safety-Benchtop Workers
Nanotechnology in the Workplace-Nano Workers

High Resolution Analytical Transmission Electron Microscope (HRTEM) - JEOL 2100F
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Analytical Bio/Soft Matter Transmission Electron Microscope (TEM) - JEOL 1400
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Scanning Electron Microscope (SEM) - Hitachi 4800
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

High Resolution Analytical Scanning Electron Microscope (HRSEM) - JEOL 7600F
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

X-ray Energy Dispersive Spectroscopy (EDS)-Oxford Inca Energy
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC

Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

X-ray Wavelength Dispersive Spectroscopy (WDS)-Oxford Inca Wave
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

STEM imaging
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Low Angle Backscattered Electron Detector (LABE)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

3D Surface Metrology – Alicona MEX 5.0
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Dual Beam Scanning Electron/Focused Ion Beam Microscope - FEI Helios NanoLab (*Cleanroom*)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

SEM/EDX
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

STEM
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

TEM Sample Prep
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH

Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Electron Beam Induced Imaging (EBIC)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

In-situ electrical characterization
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

X-ray Energy Dispersive Spectroscopy (EDS) Oxford Inca Energy
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

UHV Focused Ion Beam/Low Energy Electron Diffraction/Scanning Auger analyzer - Omicron Nanoprobe
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Low Energy Electron Microscope III (LEEM) at NSLS – Elmitec
Cyber Security Training – GE-CYBERSEC
General Employee Radiological Training – TQ-GERT
Photon Sciences NSLS Safety Module - PS-ESH-NSLS-SFTYMOD

Low Energy Electron Microscope V (LEEM) - Elmitec
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Lorentz Transmission Electron Microscope - JEOL 2100M
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Nanomill – Fischione 1040
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Techprep Automatic Polisher – Allied High Tech
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Dimpler – South Bay Technology D500I
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Dimpler – Gatan 656
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Dual Beam Ion Mill – Fischione 1010
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Precision Ion Polishing System (PIPS) – Gatan 691
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

High Resolution Ion Beam Coater – Gatan 681

CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Spectroscopic and Time-Resolved Probing

Time-Correlated Single Photon Counting (TCSPC) - Picoquant FT200
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Femtosecond Transient Absorption Spectrometer - Helios
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Nanosecond Transient Absorption Spectrometer - EOS
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Fluorescence Up-conversion Spectrometer - Halcyone
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Amplified Ti:Sapphire Laser System/Optical Parametric Amplifier-1 kHz
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Pump-probe
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Zscan/Nonlinear Absorption
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Sample Irradiation
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

FTIR Spectrometer - Bruker Vertex 80V
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

FTIR Spectrometer - Thermo Scientific Nicolet 6700
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Photon Counting Spectrofluorometer - ISS PC1/K2
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Circular Dichroism Spectrometer - Jasco J-815
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Uv-Vis/NIR Spectrophotometer - PerkinElmer Lambda 950
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Uv-Vis Spectrophotometer - PerkinElmer Lambda 25
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Fluorescence Spectrometer - Varian Cary Eclipse
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laser Safety – TQ-LASER
Laser Medical Surveillance – OM-MEDSURV-LASER
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

X-Ray and Light Scattering

X-Ray Diffractometer - Rigaku Miniflex II
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

X-Ray Diffractometer - Rigaku Ultima III
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
General Employee Radiation Training – TQ-GERT
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Small and Wide Angle X-ray scattering (SAXS/WAXS/GISAXS) - X9 beamline at NSLS
Cyber Security Training – GE-CYBERSEC
General Employee Radiological Training – TQ-GERT
Photon Sciences NSLS Safety Module - PS-ESH-NSLS-SFTYMOD

Dynamic Light Scattering with Zeta Potential - Malvern Zetasizer Nano
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Solution Based and Biomolecular Methods

Laminar Flow hoods/wet chemistry/hot plates/heating bath/diamond scriber (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Wet chemistry synthesis/functionalization of nano-scale and organic materials
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Biomolecular methods:cell culture,cold room,gel electrophoresis and DNA imaging
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Microarray scanner - GenePix 4200A
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Quantitative Real-time PCR - Roche Lightcycler 480

Fast Protein Liquid Chromatography (FPLC) - GE AKTA Explorer 100
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Circular Dichroism Spectrometer
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Centrifuges/shakers/mixers/sonicators
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Dynamic Light Scattering
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Thermal Analysis, Annealing, and Electrochemistry

Differential Thermal Analysis (DSC) - Perkin Elmer Diamond
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Constant Temperature bath (-20°C to 100°C)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Thermo Gravimetric/Differential Thermal Analyzer(TGA/DTA)-Perkin Elmer Diamond
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP

Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Electrochemical workstation
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Thin Film Metrology

Dektak 150 Stylus Profilometer - Dektak 150 (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Spectroscopic Ellipsometer - J.A. Woollam M-2000
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Ellipsometer - Rudolph Instruments 439 (*Cleanroom*)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Non-contact Profilometer - Zygo New View 6000 (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Reflectometer – Filmetrics F20 (Cleanroom)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

X-Ray Diffractometer - Rigaku Ultima III
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
General Employee Radiation Training – TQ-GERT
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Etching and Ashing

Reactive Ion Etcher (RIE) - March Plasma
Deep Reactive Ion Etcher, available w/Bosch process (DRIE) - Oxford Plasma Lab

Plasma Asher - Technics PEIIA

Reactive Ion Etcher (RIE) - Trion Phantom III

Oxford Chlorine Etcher C (RIE-C) – Oxford Plasma Lab 100

Deposition (Evaporators/Sputterers/PECVD/Coaters)

Desktop sputter coater for SEM analysis - Denton (*Cleanroom)*

Electron Beam Deposition System - Kurt J. Lesker PVD75 (*Cleanroom)*

Physical Vapor Sputter/Thermal Evaporator - Kurt J. Lesker PVD75

Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Sputter Coater - Kurt J. Lesker PVD75 (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Plasma Enhanced Chemical Vapor Deposition (PECVD)System - Trion Orion III (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Sputter/Coater - Cressington 208HR DC
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Spin Coater - Brewer Science Cee 200CB (*Non-Cleanroom*)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Suss Spin - Coater (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Spin Coater - Brewer Science Cee 200CB (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Atomic Layer Deposition Tool (ALD) Savannah S100
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP

Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Electrical Probing

Cryogenic Probe Station - Lakeshore
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Electrical Probe Station, with solar simulator - Rucker-Kolls
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Electrical Probe Station - Signatone
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

High Temp Electrical Probe Sta/Annealing oven MBE Komponenten A0500
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Wedge Bonder – Kulicke & Soffa 4526
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Photovoltaic Device Characterization System - Rucker-Kolls, Newport, and Agilent (customized electrical probe station, 150W solar simulator, calibrated Si solar cell standards, precision semiconductor parameter analyzer)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Cryogen Safety – HP-OSH-25
Electrical Safety for Benchtop Workers – TQ-ELECT-BENCHTOP
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Lithography

Electron Beam Lithography Tool (EBL) - JEOL JBX6300FS (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH

Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Layout Beamer (pattern fracture & proximity effect correction)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

L-EDIT (CAD)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

UV Mask Aligner - Karl Suss MJB-3 (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Nanoimprinter - Molecular Imprints Imprio 55 (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Dual Beam Scanning Electron/Focused Ion Beam Microscope-FEI Helios Dual Beam (*Cleanroom)*
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

> focused ion beam
> CFN Safety Module for Users – NC-ESH-USERS
> Cyber Security Training – GE-CYBERSEC
> Laboratory Standard – HP-IND-220
> Hazardous Waste – HP-RCRIGEN3
> Oxygen Deficiency Hazard – TQ-ODH
> Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

> low-kV e-beam lithography with NPGS
> CFN Safety Module for Users – NC-ESH-USERS
> Cyber Security Training – GE-CYBERSEC
> Laboratory Standard – HP-IND-220
> Hazardous Waste – HP-RCRIGEN3
> Oxygen Deficiency Hazard – TQ-ODH
> Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

> ion-beam/electron-beam induced deposition of platinum
> CFN Safety Module for Users – NC-ESH-USERS
> Cyber Security Training – GE-CYBERSEC
> Laboratory Standard – HP-IND-220

Hazardous Waste – HP-RCRIGEN3
Oxygen Deficiency Hazard – TQ-ODH
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2

Molecular and Macromolecular Synthesis

Organic Synthesis Facility (Fume Hoods, Vacuum/Inert Gas Manifolds, solvent purification system)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2
Cadmium Training for HAZCOM – TQ-CADMIUM
Methylene Chloride for HAZCOM – TQ-MCAT

Size Exclusion Chromatography System - Viscotek TDAmax (low-angle light scattering, diff. viscometry, diff. refractive index, photodiode array detectors)
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2
Cadmium Training for HAZCOM – TQ-CADMIUM
Methylene Chloride for HAZCOM – TQ-MCAT

Inert Atmosphere Glove Box - Vacuum Atmospheres Omni-Lab w/Freezer
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2
Cadmium Training for HAZCOM – TQ-CADMIUM
Methylene Chloride for HAZCOM – TQ-MCAT

Automated Flash Chromatography System - Biotage Isolera One
CFN Safety Module for Users – NC-ESH-USERS
Cyber Security Training – GE-CYBERSEC
Laboratory Standard – HP-IND-220
Hazardous Waste – HP-RCRIGEN3
Compressed Gas – TQ-COMPGAS-1
Cryogen Safety – HP-OSH-25
Electrical Safety-Benchtop Workers – TQ-ELECT-BENCHTOP
Nanotechnology in the Workplace-Nano Workers – TQ-NC-HS2
Cadmium Training for HAZCOM – TQ-CADMIUM
Methylene Chloride for HAZCOM – TQ-MCAT

Theory, Computation & Software

Software and Computational Services
Cyber Security Training – GE-CYBERSEC