



CUNY ADVANCED SCIENCE RESEARCH CENTER

Imaging Suite

The Imaging Suite currently hosts **cutting-edge microscopy instrumentation** including transmission electron microscopes with cryo capabilities (cryoTEM, S/TEM), as well as a scanning electron microscope with focused ion beam functionality (SEM/FIB) and a super-resolution confocal stimulated emission depletion microscope (STED).

The facility allows for **advanced imaging of materials and biological samples**, including semi-automated data collection for single particle 3D reconstruction, chemical mapping by energy-dispersive x-ray spectroscopy (EDX), live cell imaging, and advanced FIB applications.

The facility welcomes users from CUNY and other institutions regardless of academic level, in addition to start-up companies and industry.

For more information:
asrc.cuny.edu/imaging-suite

Available Instrumentation

The Imaging Suite houses the below microscopy instrumentation in addition to several auxiliary instruments for sample preparation, including a time-resolved plunge freezer.

300 kV cryo-EM with Gatan K2 Summit direct detection camera

200 kV S/TEM with Cs image corrector and EDX detector

Dual-beam SEM/FIB with EDX detector

STED microscope with white light excitation and 3 STED depletion lasers

Planned expansion with planned availability in 2018 includes an additional TEM and other preparative and microscopy instrumentation.