# CUNY ASRC
# IMAGING
# FACILITY

## Applications

*Materials Science and Engineering:*
- High-resolution TEM, STEM, and SEM imaging
- Milling, patterning, cross-section imaging and TEM lamella preparation via FIB-SEM
- EDS elemental mapping
- Raman spectroscopy for chemical analysis

*Life Science:*
- Cryo-EM imaging for biological and beam-sensitive specimens
- Semi-automated data collection for single particle 3D reconstruction
- Super-resolution fluorescence imaging
- Surface imaging in environment

**Learn more about the Imaging facility and view all applications at https://bit.ly/2prZaCA**

## Contact

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ADVANCED SCIENCE
RESEARCH CENTER
**THE GRADUATE CENTER**
CITY UNIVERSITY OF NEW YORK

## Available Instrumentation

### Transmission Electron Microscopy (TEM)
- FEI Titan Halo 300 kV Cryo-EM with Gatan K3 direct detection camera
- FEI Titan Themis 200 kV S/TEM with imaging Cs corrector and EDX detector
- FEI Tecnai Spirit 120 kV TEM with low temperature capability

### Scanning Electron Microscopy (SEM)
- FEI Helios Nanolab 660 FIB-SEM with EDX detector
- FEI Quattro S Environmental SEM

### Confocal Microscopy
- Leica Stimulated Emission Depletion (STED) Fluorescence Confocal Microscope
- WITec Alpha300R Raman Confocal Microscope

**About the CUNY ASRC**
The Advanced Science Research Center at the CUNY Graduate Center (CUNY ASRC) is a world-leading center of scientific excellence that elevates STEM inquiry and education at CUNY and beyond. The CUNY ASRC's research initiatives span five distinctive, but broadly interconnected disciplines: nanoscience, photonics, neuroscience, structural biology, and environmental sciences. The center promotes a collaborative, interdisciplinary research culture where renowned and emerging scientists advance their discoveries using state-of-the-art equipment and cutting-edge core facilities.

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