

Peter Ercius

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<https://scholar.google.com/citations?user=SJCMwfIAAAAJ&hl=en&oi=ao>

Biography:

Peter Ercius is a staff scientist at the National Center for Electron Microscopy (NCEM) facility within the Molecular Foundry at Lawrence Berkeley National Laboratory. He received his Ph. D. in applied and engineering physics after studying electron tomography with Professor David A. Muller in 2009. He is currently in charge of the dual aberration-corrected TEAM 0.5 instrument. Dr. Ercius is leading research in atomic electron tomography, development and applications of very fast direct electron detectors, high throughput S/TEM automation, and biomineralization. He collaborates with a world-wide set of users of the NCEM facility on a wide range of projects including S/TEM atomic resolution imaging, multidimensional imaging, 4D-STEM scanning diffraction, in situ liquid TEM, and electron energy loss spectroscopy (EELS).

Research interests and topics for presentation:

- Electron tomography
- Scanning nanodiffraction (4D-STEM)
- Electron energy loss spectroscopy
- In situ liquid cell TEM
- S/TEM automation
- Large data analysis