

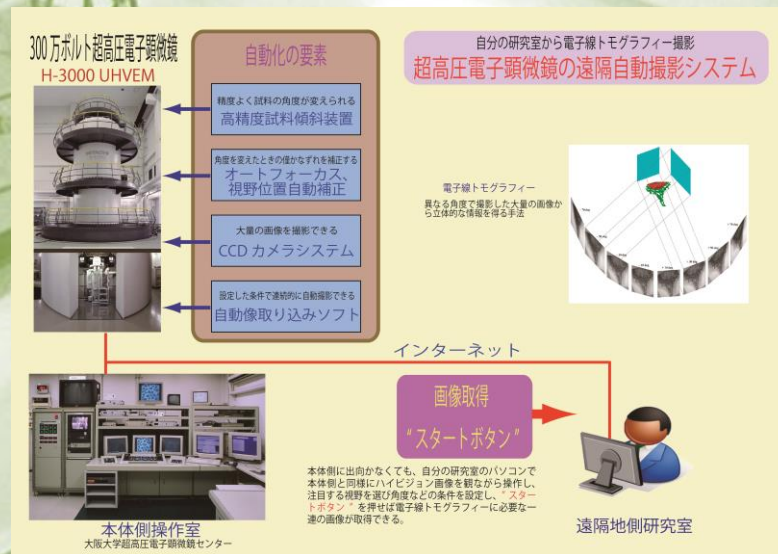
Research Division of Fundamental Technology, Research Center for Ultra-High Voltage Electron Microscopy (Cooperative Area for Department of Quantum Electronic Device Engineering, Graduate School of Engineering)

Research topics:

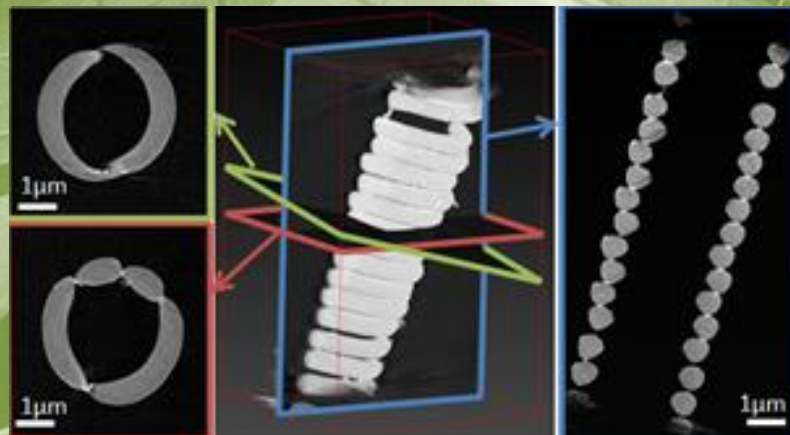
- Development of automated electron tomography system in ultra-high voltage electron microscope.
- Theoretical/experimental researches of the transmission ability of high energy electrons for quantitative 3D observations of micron-sized functional materials.
- Theoretical study of aberration-corrected electron optics.
- Analysis of atomistic structures of various nano materials by aberration-corrected electron microscopy.
- Development of electron diffractive imaging.

Research Staff:

Associate Prof. Ryuji Nishi rnishi@uhvem.osaka-u.ac.jp
Associate Prof. Jun Yamasaki yamasaki@uhvem.osaka-u.ac.jp
TEL: 06-6879-7941 URL: <http://www.uhvem.osaka-u.ac.jp/>



Ultra-high voltage electron microscopy equipped with the automated tomography system.



Precise 3D reconstruction of carbon microcoil with diameter of 3.7 μm.