West Campus Cores

Contact core directors for usage fees, sample submission, training oppurtunities and a full listing of available equipment.

1. Mass Spectrometry Facility

Instrumentation: Multiple instruments for mass spectrometry of inorganic, organic, biological and technical polymer samples

Location: 412 Rieveschl Hall, 4th floor; artsci.uc.edu/departments/chemistry/core-facilities/mass-spectometry-facility

Contacts: Larry Sallans; 556-1575; larry.sallans@uc.edu and Stephen Macha; 556-1575; Stephen.macha@uc.edu

2. Advanced Materials Characterization Center (AMCC)

Instrumentation: Scanning and transmission electron microscopy (w/focused ion beam, EBSD, elemental analysis, STEM), atomic force microscopy, DSC, powder x-ray diffractometry with ICDD database

Location: Engineering Research Center, 3rd Floor; amcc.uc.edu

Contact: Melodie Fickenscher; 556-3220; fickenm@uc.edu

3. X-ray Crystallography Facility

Instrumentation: Single Crystal X-ray Diffractometry with low temp capabilities, Synchrotron radiation access, Stereo microscope

Location: 311 Crosley Tower, 3rd floor; artsci.uc.edu/departments/chemistry/core-facilities/x-ray-crystallography

Contacts: Jeanette Krause; 556-9226; Jeanette.krause@uc.edu

4. Nuclear Magnetic Resonance (NMR) Facility

Instrumentation: Bruker AV 400 MHz spectrometer also with GRASP capabilities

Location: 123A Crosley Tower, 1st floor; artsci.uc.edu/departments/chemistry/core-facilities/nuclear-magnetic-resonance-facility

Contacts: Keyang Ding; 556-9211; dingkg@ucmail.uc.edu

5. Chemical Sensors & Biosensors Instrumentation Facility

Instrumentation: Raman, FTIR, Scanning Probe Microscopy, TGA/DSC for high temp transitions, Scanning Electron Microscope, and more

Location: 103 Crosley Tower, 1st floor; artsci.uc.edu/departments/chemistry/core-facilities/chemical-sensors---biosensors

Contacts: Necati Kaval; 556-9201; kavaln@ucmail.uc.edu

6. **Environmental Analysis Service Center (EASC)**
   Instrumentation: ICP-MS, Gas and liquid chromatography, and DNA sequencing.
   Location: Engineering Research Center, 7th Floor;
   ceas.uc.edu/chemical-environmental-engineering/Research_Centers/EASC
   Contact: Zhiqiang (Mark) Wang; 556-4171; zhiqiang.wang@uc.edu

7. **ERC Clean Room**
   Instrumentation: Core clean room facility with areas of class 10, 100, 1000, and 10,000; includes tools for photolithography, deposition, etching, oxidation, and characterization.
   Location: Engineering Research Center, 3rd Floor; ceas.uc.edu/cleanroom
   Contact: Ron Flenniken; 556-4796; flennirg@ucmail.uc.edu and Jeff Simkins; 556-4775; simkinjr@ucmail.uc.edu

8. **Ohio Center for Microfluidic Innovation (OCMI)**
   Instrumentation: Development of products that can be applied to biomedical, electronics, and sensor industries; includes equipment to take microfluidic devices from concept to pilot fabrication. Tools for injection molding, hot-embossing and UV-cured roll-to-roll processing.
   Location: Rhodes Hall, 9th Floor; ceas.uc.edu/ocmi
   Contact: Ron Flenniken; 556-4796; flennirg@ucmail.uc.edu and Jeff Simkins; 556-4775; simkinjr@ucmail.uc.edu

9. **Plasma Spectrochemical Analysis and Metallomics Center**
   Instrumentation: Specializes in the analysis of complex samples for elemental quantification and chemical speciation. Tools include ICP-MS, HPLC, and Freeze Dryer.
   Location: 507 Rieveschl Hall, 5th floor; plasmachem.weebly.com/icpms-service-center
   Contact: Julio Landero; 556-4837; Landerjo@ucmail.uc.edu

10. **Digital Fabrication Lab**
    Instrumentation: 3D Printing Lab for printing of medical devices, lab device/apparatus, electronic housings, aerospace components and more.
    Location: Victory Parkway North Lab building; ceas.uc.edu/dfl/printers
    Contact: Sam Antoline; 556-4837; sam.antoline@ucmail.uc.edu