

**X-ray
Diffraction
Laboratory**

**Department of
Chemistry**

**Texas A & M
University**

Mission

The purpose of our laboratory is to provide X-ray diffraction analysis to the Texas A & M University system and to educate our students in the science of Crystallography. Our main focus is to determine molecular structure from single-crystal samples and to perform high resolution X-ray powder diffraction. We provide services to outside users.

We are a full service facility, able to determine the three dimensional structure of molecules and extended structures from single crystal and polycrystalline samples.

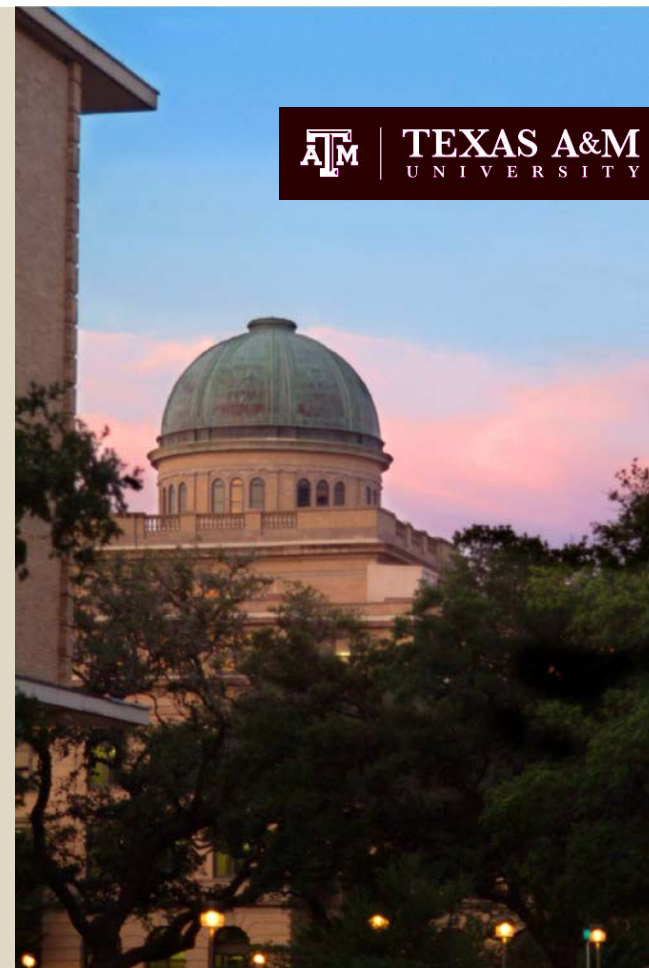
Our Services

- **Single Crystal Diffractometry**
- **Wide angle X-ray scattering (WAXS)**
- **2D powder Diffractometry**
- **Molecular Structure Solution**
- **Extended Structure Solution**
- **Qualitative phase analysis**
- **Quantitative phase analysis**
- **Micro Powder diffraction**
- **Ultra low temperature (SCD)**
- **Ultra high temperature (1000C XPD)**
- **Absolute structure determination**

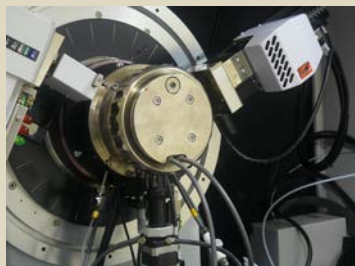
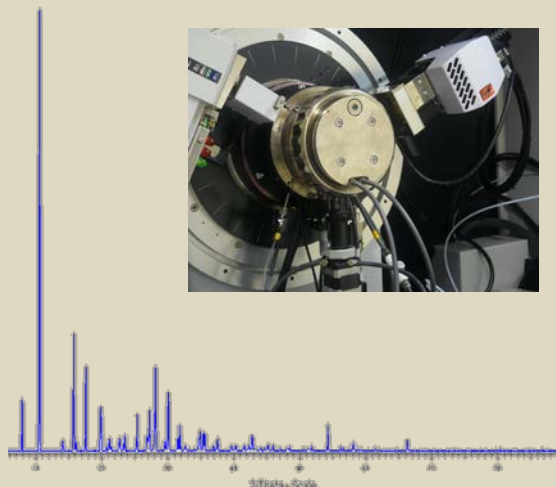
X-ray Diffraction Laboratory
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Instrumentation

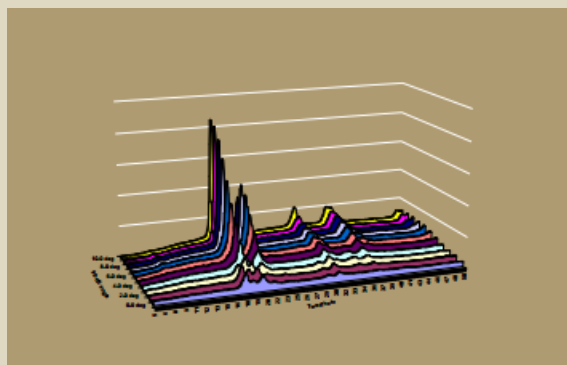
- 3 Bragg/Brentano Powder Diffractometers
- MTC 30-1000C Diffractometer oven
- Copper IuS CMOS Single Crystal X-ray Diffractometer
- Molybdenum IuS CMOS Single Crystal X-ray Diffractometer
- Duo IuS (Mo,Cu) CCD Single Crystal X-ray Diffractometer
- 2 APEX2 CCD Single Crystal X-ray Diffractometers
- GADDS/MWPC X-ray Diffractometer
- Oxford HELIX Ultra-low Temperature (30K) attachment.

Personal

Two full time dedicated (Ph.D.) instrument specialist.

The X-ray Diffraction Laboratory is equipped to handle all of your structural needs. We comply with all FDA Good Laboratory Practices and our work is completely confidential.

Our specialists are trained in industrial techniques. Our X-ray laboratory is one of the best equipped and maintained X-ray diffraction facilities in the United States and we are ready to accept your samples.



X-ray Diffraction Laboratory

The X-ray Diffraction Laboratory at Texas A & M University is located in the Chemistry Department room 2407-2409 and room 1420.

We operate and maintain nine X-ray instruments and our staff consists of trained and educated (Ph.D.) scientists, who are respected experts in their fields.

Contact us at

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