The Boise State Center for Materials Characterization serves Boise State University and the wider academic and industrial communities. We have the instrumental capabilities and operator expertise to characterize a wide variety of materials.

The analytical capabilities at the XEML help enable a broad range of research and development topics including alloy development, nuclear materials, semiconductors, thin films, optical fibers, flexible electronics, polymers, bio-medical, bacteriophages, food quality, mineralogy, and even the tectonic evolution of the Himalayas.

**OUR CAPABILITIES**

**Structural**
- X-ray Diffraction (XRD)
- Electron diffraction
- Electron backscatter diffraction (EBSD)

**Chemical**
- Energy dispersive x-ray spectroscopy (EDS)
- Electron microprobe analysis (EPMA)
- X-ray fluorescence (XRF)

**Imaging**
- Transmission electron microscopy (TEM)
- Scanning electron microscopy (SEM)
- Light microscopy

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