

# Beamline 13-ID-E: Sector 13 X-ray Microprobe

GSECARS

*GeoScience, Environmental Science*

## Description

The 13 IDE hard x-ray microprobe provides researchers resources for microfocused X-ray fluorescence

## Supported Techniques

- Microfluorescence (hard x-ray)
- Micro X-ray absorption fine structure
- Microdiffraction

## Beamline Controls and Data Acquisition

EPICS for instrument and detector control. Python and IDL for data acquisition and processing.

## Detectors

- Vortex 4-element and single element detector
- Perkin Elmer amorphous silicon
- MAR 165 CCD and MAR-345 image plate

## Additional Equipment

- Peltier cooled sample stage
- Ultraviolet light illuminator
- Laboratory facilities including microscopes, fume hood, glove box, etc.

## Local Contacts

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## Beamline Specs

<b>Source</b>	3.5 Undulator
<b>Monochromator Type</b>	DCM Si(111)
<b>Energy Range</b>	2.4-28 keV
<b>Resolution (<math>\Delta E/E</math>)</b>	$1.1 \times 10^{-4}$
<b>Flux (photons/sec)</b>	$6 \times 10^{12}$ @10 keV
<b>Monochromator Type</b>	DCM SI(311)
<b>Energy Range</b>	-

**Current Status:** Operational/Accepting General Users

**Access Mode:** On-site