



The Sample Preparation Facility

## About this Facility

The Sample Preparation Facility (prepLab) is a high-precision sample preparation facility – located in 329 Cobleigh Hall. This facility allows preparation of ultra-high quality polished specimens for SEM, TEM, EDX, nano-Auger, EBSD and other microbeam analysis requiring flat, smooth, and damage-free surfaces.

[www.nano.montana.edu/sample-prelab.html](http://www.nano.montana.edu/sample-prelab.html)

## Available Equipment

- 1 Pelcon automatic petrographic thin section machine with diamond drum grinders.
- 2 Allied High Tech TechCut 4 precision low-speed saw
- 3 Allied High Tech MetPrep 3 grinder-polisher
- 4 Allied High Tech Multiprep grinder-polisher
- 5 Buehler Vibromet vibratory polisher
- 6 Vacuum embedding/impregnation system
- 7 Nikon Optiphot POL

## Fee Schedule

Qualified users may use the equipment – except for the Pelcon thin sectioning machine – for a fee. The cost of all expendables is included in the fee. New users MUST complete ½ hour of training (\$30) prior to using equipment. All equipment and expendable usage must be recorded in the equipment log books and all relevant safety protocols must be followed. Violation of laboratory policies will not be tolerated.

## Contact

To talk in more detail about how we may be able to help you, contact MONT director David Dickensheets at [davidd@montana.edu](mailto:davidd@montana.edu).

Colin Shaw is the Sample Preparation Facility Director

The Sample Preparation facility is a part of MONT, the Montana Nanotechnology Facility, supported by NSF. MONT supports open access to 6 research facilities at MSU and is a part of the National Nanotechnology Coordinated Infrastructure (NNCI) with access to 15 additional sites across the US. If MONT does not have the instrumentation you need, we will find what you're looking for at one of our partner institutions.  
[www.nnci.net](http://www.nnci.net)

