Tool ID: 617
Tool Location: 128

Equipment Information Sheet

Zeiss Ultra SEM

Manager: Xinwei Wu 607-254-4934
Backup: Philip Schneider 607-254-4931

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

SAFETY

The SEMs are safe instruments when operated normally. However, they can be easily damaged if used improperly.

USAGE RESTRICTIONS

No buddy system restrictions imposed on normal operation.

SCHEDULING/SIGN-UP RESTRICTIONS

Minimum Tool Time: 15 minutes

- 2 hours maximum between 9 AM - 6 PM
- There must be a minimum of 4 hours between any two reservations.
- 4 hours maximum at all other times

MATERIALS COMPATIBILITY CATEGORY

Tool Category 5: Class A and B Metals and Compounds

Allowed	Not Allowed
Tool category 1/1E, 2, 3, and 4 materials	
Silicon Based Substrates and Films	
III/V compound Semiconductors	
Glass Substrates	
PECVD and ALD Films	
Cured organics and baked Photoresist	
CNF Class A, B, and Refractory metals	
Exposed Gold, Silver, Copper	
Alkali and Alkaline Compounds	
Organic/Biology Molecules prepared-w/salt buffers	
High Vapor Pressure Materials (Mg, Ca, Zn)*	* Some tool restrictions on high vapor pressure materials may apply
Soft organic materials	

High Vapor Pressure Metals and Compounds are materials that have a vapor pressure above 1e-6 Torr at 400 C.

Additional Material Restrictions and Exceptions

- Fully Baked Resist Only!
- Samples should be cleaned and baked before imaging

Last Updated: 07/30/2025