

Tool ID: 630  
Tool Location: 128

## Equipment Information Sheet

# Zeiss Gemini SEM

**Manager: Xinwei Wu 607-254-4934**  
**Backup: John Treichler 607-254-4949**

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.

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### 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: 05/04/2026*