

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