Tool ID: 305
Tool Location: 107

**Equipment Information Sheet**

# Oxford PECVD

**Manager: Jeremy Clark 607-254-6487**
**Backup: Phil Infante 607-254-4926**
**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

- User must remain in lab while the plasma is on.
- The PECVD can be run at temperatures between 200 C and 400 C.
- The tool uses pyrophoric, toxic and oxidizing gases

## USAGE RESTRICTIONS

- User is required to be in the lab during plasma operation.
- For TEOS based SiO2
  - Run "Clean - TEOS", changing the "INNER" and "OUTER" step times each to total deposition time
- For a-Si
  - Run "Clean - aSi", changing the "INNER" and "OUTER" step times each to total deposition time
- For all other materials
  - Run "High Rate Clean" for total deposition time plus 10 minutes.

## SCHEDULING/SIGN-UP RESTRICTIONS

*Minimum Tool Time: 15 minutes*

- 3 Hours Max from 8AM - 5PM
- 12 Hours Total Reservation per 7 days

## 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

- No general material restrictions
- Resists or other polymers must be cured at 25C above the temperature of the hotplate.

- RF Power is limited to 200W

*Last Updated: 11/20/2026*