

Tool ID: 623  
Tool Location: 128

Equipment Information Sheet

# Panalytical X-ray Diffractometer

**Manager:**  
**Backup:**

**Xinwei Wu**  
**Jeremy Clark**

**607-254-4934**  
**607-254-6487**

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 XRD is a safe instrument when operated normally. However, it can be easily damaged if used improperly.

**USAGE RESTRICTIONS**

- No buddy system restrictions imposed on normal operation.

**SCHEDULING/SIGN-UP RESTRICTIONS**

- 4 hours maximum between 9 AM - 6 PM
- There must be a minimum of 4 hours between any two reservations

Minimum Tool Time: 15 minutes

**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 Compoundsare materials that have a vapor pressure above 1e-6 Torr at 400 C.

**Additional Material Restrictions and Exceptions**

Last Updated: 01/13/2022