

# UNM NANOFAB at CHTM

## Rates for Internal and External Users

**Glossary:**

An **internal user** is any user who pays for facilities access, equipment rentals, and consumables using a [UNM index](#).

An **external user** is any user who pays for facilities access, equipment rentals, and consumables using a funding source other than a [UNM index](#).

An **‘unassisted’** rate is applied to a user who, in the judgment of the Nanoscience Lab Manager or appropriate designee, is fully trained on the equipment to be used.

An **‘assisted’** rate is applied in any of the cases listed below.

- To a user who, in the judgment of the Nanoscience Lab Manager or appropriate designee, requires a Nanoscience staff member to be present to assist in equipment operation.
- During a user training and certification session on equipment
- When a staff member performs work for a user
- When a staff member assists a trained user.

**The billing cycle (also referred to as ‘cycle’)** begins at 12:00 AM on the 16<sup>th</sup> of each month and ends at 11:59 PM on the 15<sup>th</sup> of the next month (i.e., March 16 to April 15).

**Table 1-Access to the shared facilities \***

Internal user		External user	
Unassisted rate	Assisted rate	Unassisted rate	Assisted rate
\$66/hr (with a cap of 600\$/cycle to be applied beyond 9 hrs of use)	\$250/hr	\$88/hr (with a cap of 1200\$/cycle to be applied beyond 14 hrs of use)	\$251/hr

\*It includes

- Access to the cleanroom

- Use of all tools inside the cleanroom that are not indicated to have tool-specific additional rates in this document (see Table 2)
- Use of all tools outside the cleanroom that are managed by the nanofab team but are not indicated to have tool-specific additional rates in this document (see Table 2).

**Table 2-Tool-specific rates**

	Internal user		External user	
	Unassisted rate	Assisted rate	Unassisted rate	Assisted rate
<b>Raith Voyager e-beam lithography system (Cleanroom)*</b>	\$80/hr with a cap of 300\$/cycle to be applied beyond 3h of use.	\$250/hr	\$120/hr with <ul style="list-style-type: none"> <li>• 6 hours of free use after training</li> <li>• a cap of 800\$/cycle to be applied beyond 7h of use.</li> </ul>	\$251/hr
<b>Raith Pioneer e-beam lithography and imaging system (Cleanroom)*</b>	\$80/hr with a cap of 300\$/cycle to be applied beyond 3h of use.	\$250/hr	\$120/hr with <ul style="list-style-type: none"> <li>• 6 hours of free use after training</li> <li>• a cap of 800\$/cycle to be applied beyond 7h of use.</li> </ul>	\$251/hr
<b>Interferometric lithography</b>	\$54/hr	\$86/hr	\$75/hr	\$155/hr
<b>Molecular Beam Epitaxy (various reactors)</b>	\$150/hr	\$300/hr	\$300/hr	\$601/hr

<b>Quantum Design Magnetic Properties Measurement System 3</b>	\$30/hr with a cap of 300\$/cycle to be applied beyond 9 hrs of use.	\$250/hr	\$60/hr with a cap of 600\$/cycle to be applied beyond 9 hrs of use	\$251/hr
<b>Dicing saw</b>	\$66/hr	\$250/hr	\$88/hr	\$251/hr
<b>Wire bonder</b>	\$66/hr	\$250/hr	\$88/hr	\$251/hr
<b>Flip-chip bonder</b>	\$66/hr	\$250/hr	\$88/hr	\$251/hr
<b>Oxygen plasma cleaning tool</b>	\$66/hr	\$250/hr	\$88/hr	\$251/hr
<b>X-ray diffractometer</b>	100\$/cycle	\$250/hr	100\$/cycle	\$251/hr
<b>JSM-IT100 InTouchScope™ Scanning electron microscope</b>	\$66/hr or 100\$/cycle if the cleanroom is used beyond 9hrs.	\$250/hr	\$88/hr	\$251/hr

**\*Tool-specific rates for the Voyager and the Pioneer e-beam systems are in addition to the cleanroom access rate specified in Table 1.**

### **Additional information**

These rates are periodically reviewed and adjusted as necessary.

CHTM may cap hourly access to tools for external users to protect the workflow and scheduling needs of internal users.

Please contact Karen Walker at karenwalker@unm.edu (505-272-7875) with any questions regarding the rates and billing.