LEO User Experience

Laboratory & Equipment Operations

Go Live - July 1, 2020

- RIMS replacement Begin using LEO July 1, 2020
- User-friendly
- Mobile friendly
- Consistent look and feel across all core facilities
- Log in at www.leo.psu.edu

Log in

Log in using your PSU user ID and password

Laboratory Equipment Operations

User name	
Password	
Log in	

Use your WebAccess credentials to log in to LEO

If you are having trouble logging in to LEO, it is likely that you haven't registered. Please go to LEO Registration to 1) Create a User Profile and 2) Add a Billing Account.

Landing Page

- Click on any item in the menu bar, colored box, or icon
- Return to the Landing Page from anywhere within the application by clicking on <u>LEO</u> at the top left
- Logout by clicking on Logout at the top right

Validation Needed

There are items that require validation. Please review them now, they will be automatically validated within 5 days of completion.

Upcoming reservations

FESEM: Apreo

Starting on Thursday, June 18th @ 11:00 AM Ending on Thursday, June 18th @ 12:30 PM

Alerts & outages

Resource outage: Test Resource Power outage

Current laboratory usage

You are using the FESEM: Apreo for the project named [09-378] Materials Research Institute - Nanofab F [6391510003] since Wednesday, June 17th, 2020 @ 9:09 PM.

You are not logged in to an access controlled area. Click here to log in.









Logout









Safety

Your Information

Validation Needed

- Click on the yellow box to validate your usage within 5 days of completion
- Upcoming Reservations
 - Click on green boxes to login to reserved instruments or access areas
- Alerts & Outages
 - Read red boxes for important or urgent information
- Current Usage
 - Click on blue boxes to logout of instruments and areas

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Safety

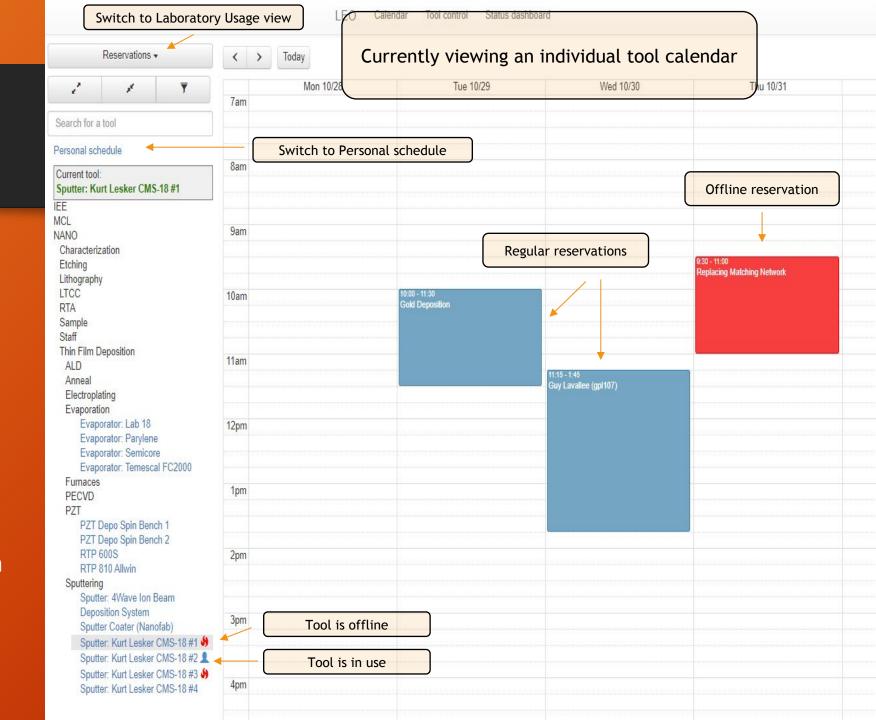
Calendar

NEW

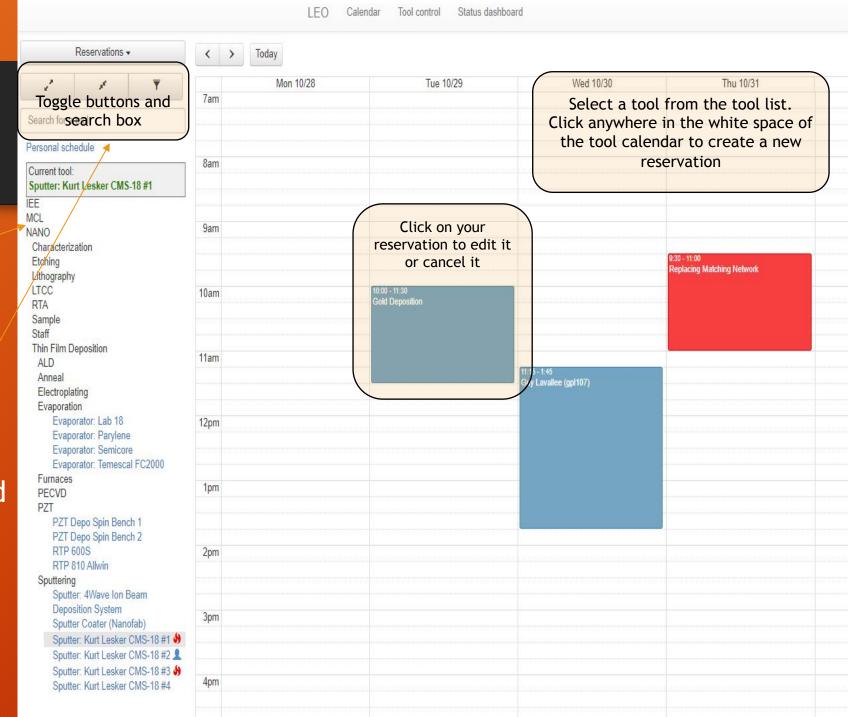
You MUST have a reservation in order to log in to a tool!

Calendar

- View Reservations
 - By individual tool
 - Multi-tool display
 - By personal schedule
- View Laboratory Usage
 - By individual tool
 - By personal schedule
- Create, Edit, Cancel Reservations
 - Select any tool configuration options, if applicable



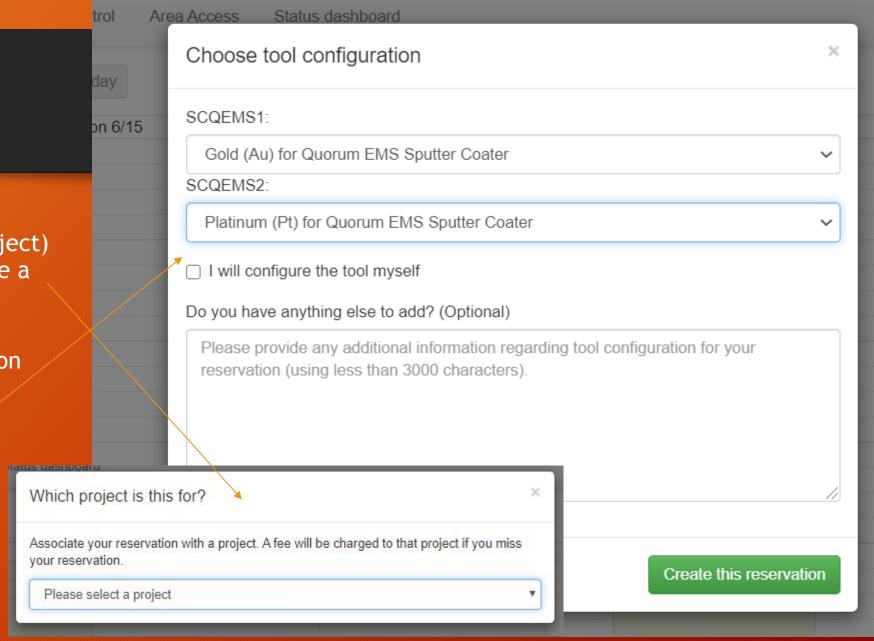
- View tool list hierarchy
 - Core Facility
 - Area
 - Technique
 - Tool name
- Expand/Collapse all tool categories
- Show all tools/Show qualified tools only
- Search by any criteria





Reservations

- A valid billing account (project) is required in order to make a reservation
- Tools may have configuration options
 - Select the desired configuration
 - Add any additional information, as needed

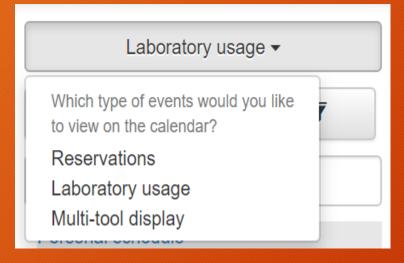


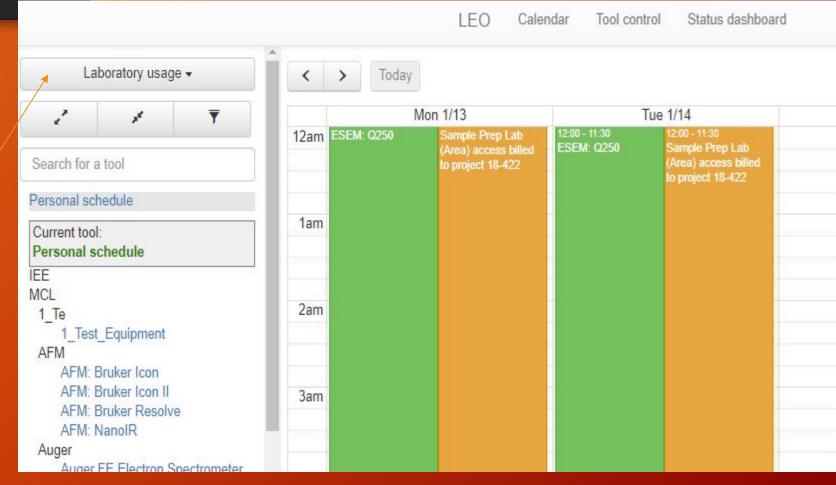
Laboratory Usage view

Laboratory usage view of Personal schedule showing tool use and area access login (Sample Prep Lab)

Laboratory Usage

 Switch from Reservation View to Laboratory Usage view





Log in to tools via green Upcoming reservations boxes on the Landing Page

Upcoming reservations

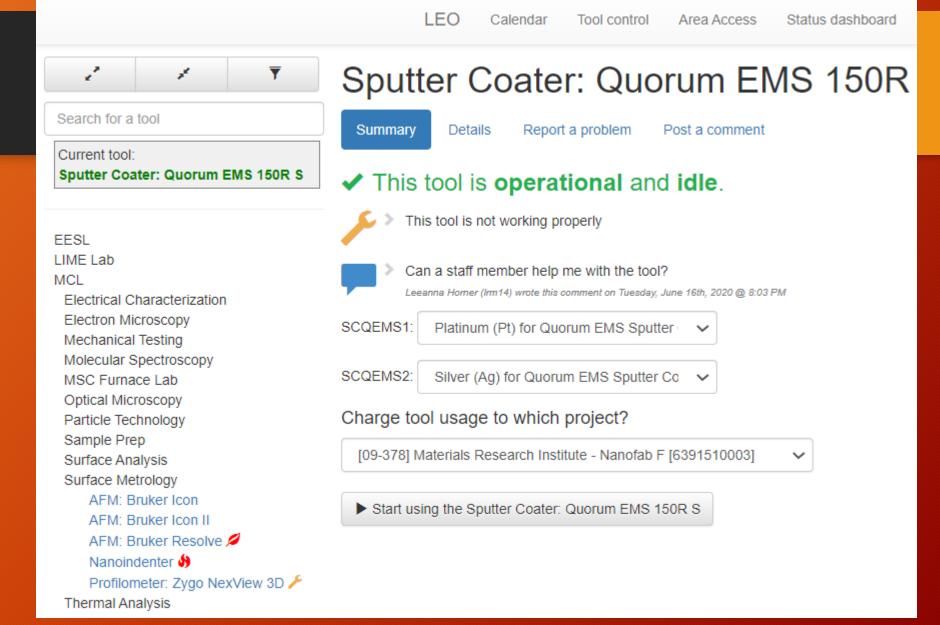
FESEM: Apreo

Starting on Thursday, June 18th @ 11:00 AM Ending on Thursday, June 18th @ 12:30 PM

FESEM: Verios

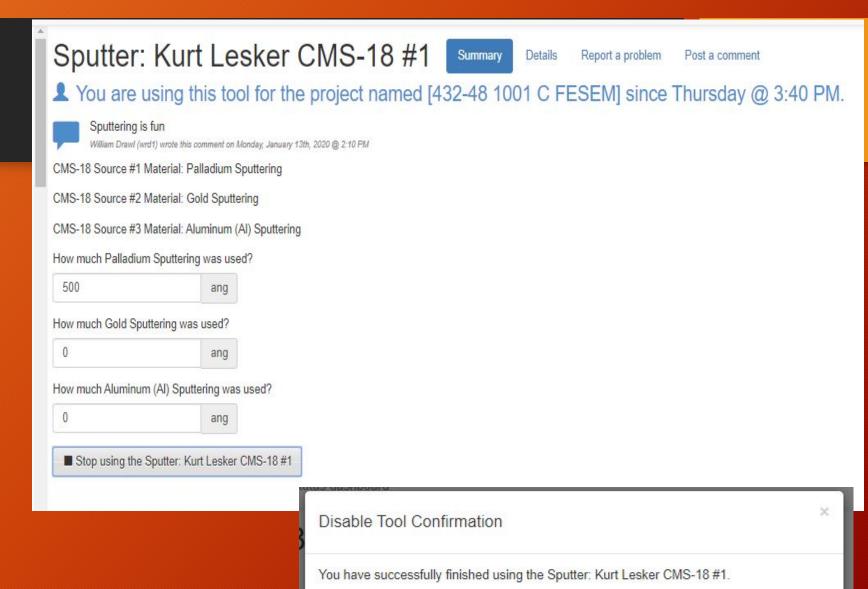
Starting on Friday, June 19th @ 10:30 AM Ending on Friday, June 19th @ 11:45 AM

- Tool is operational and idle
- Click Start using tool
- Interlock will open



Tool Control - Summary

- Log Out
 - Enter the quantity of all consumables used in the tool run, if applicable
 - Click Stop using the tool
 - A confirmation message will appear when you have successfully finished using the tool

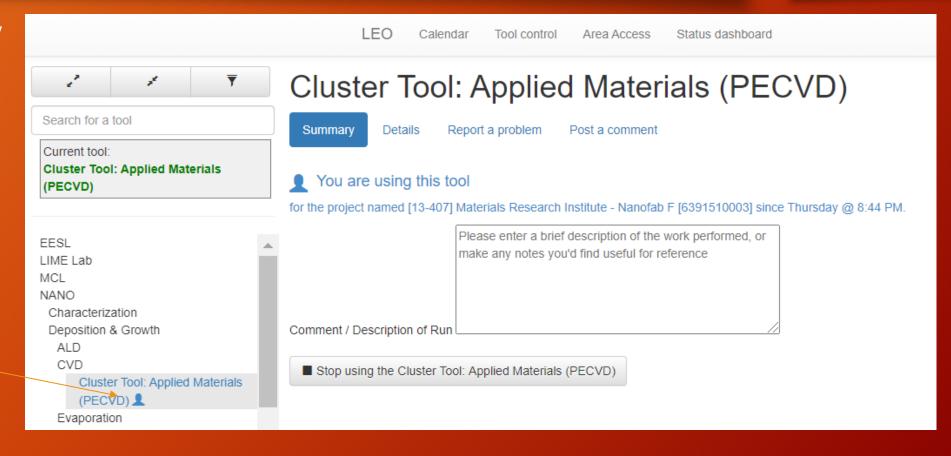


Close

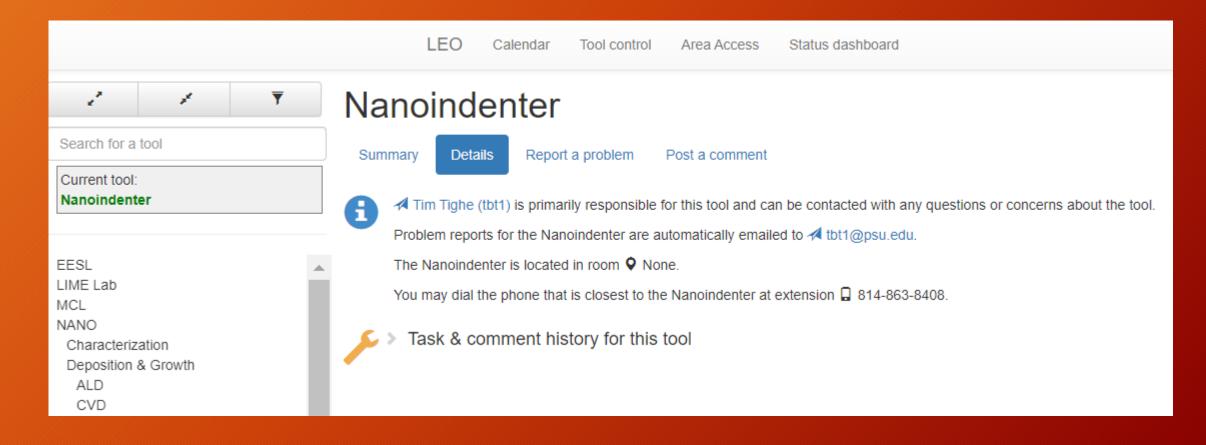
Tool Control - Summary

View of a tool in use

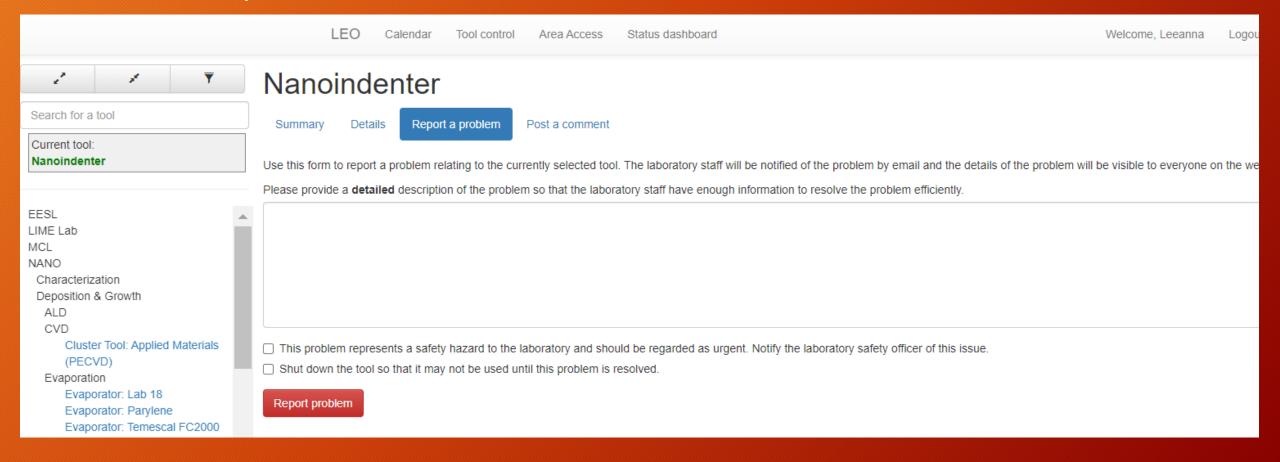
Status Icon: This tool is in use



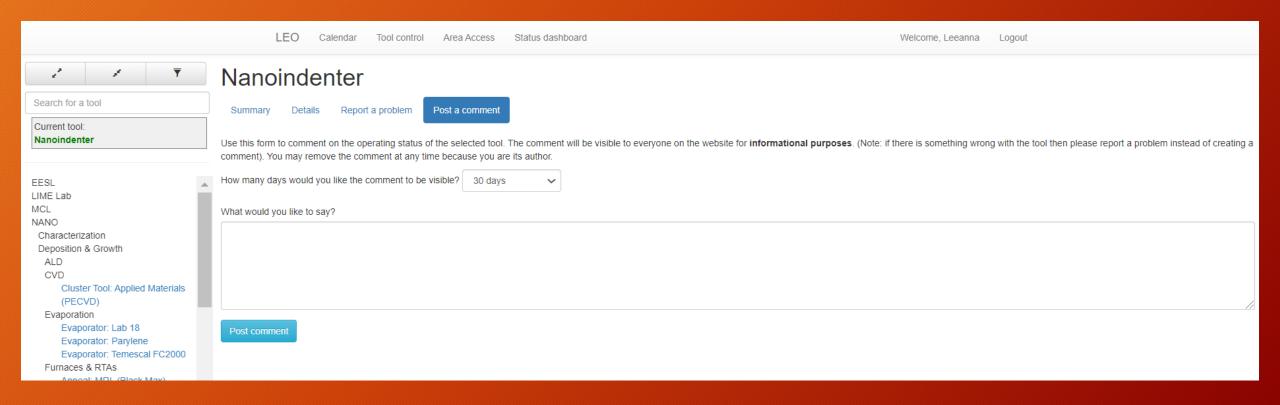
Tool Control - Details



Tool Control - Report A Problem

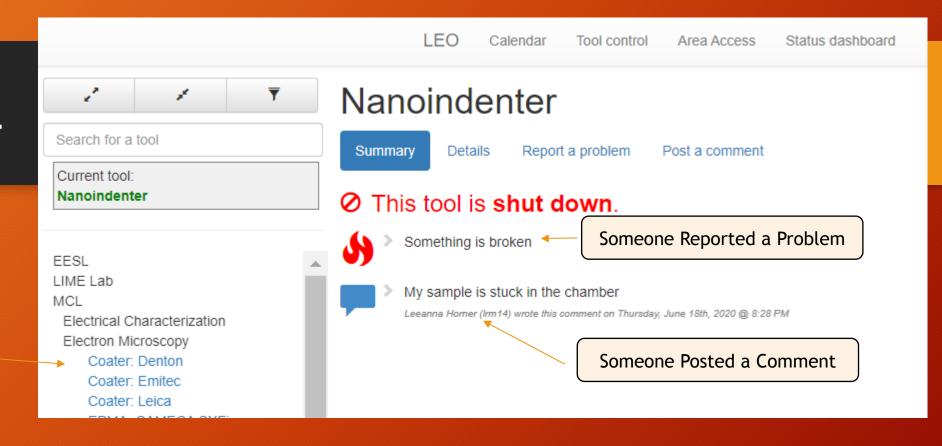


Tool Control - Post A Comment



Tool Control -Summary

- View of a tool that is offline
- Tool list -same look and function as calendar tool list



Surface Metrology AFM: Bruker Icon (© (©) AFM: Bruker Icon II (©) AFM: Bruker Resolve (©) Nanoindenter (§) Profilometer: Zygo NexView 3D (F)

Status Icons:

This tool has a delayed logout in effect

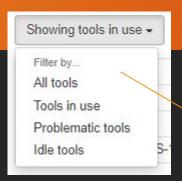
This tool has a scheduled outage

This tool is unavailable because a resource is unavailable

This tool is shut down

This tool requires maintenance

Status Dashboard



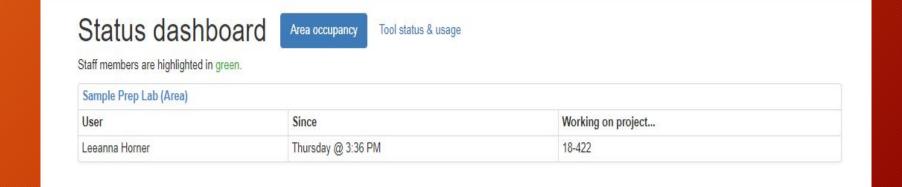
Status dashboard Area occupancy Tool status & usage Showing tools in use -User In use since... Tool ECL: System 1 1 Jeff Long (jal13) on behalf of None Friday @ 12:05 PM ESEM: Q250 1 Leeanna Homer (Irm14) Thursday @ 3:01 PM Sputter: Kurt Lesker CMS-18 #2 1 William Drawl (wrd1) Friday @ 10:03 AM

Tool Status & usage

- View who is logged in to tools
 - All tools
 - Tools in use
 - Problematic tools
 - Idle tools

Area Occupancy

View who is logged in to access areas



Area Access

If you are authorized to use an access-controlled area

 Log in to the area by clicking on the green box or Area Access on the main menu

Access Areas include:

- Machine shop
- MCL sample prep lab
- LTCC lab

LEO Calendar Tool control Area Access Status dashboard

Current laboratory usage

You are not logged in to an access controlled area. Click here to log in.

Area Access

- Choose a billing account (project)
- Choose the Area

New area access record

Customer: Leeanna Horner (lrm14)

Which of the customer's projects would you like to bill?

- [09-378] Materials Research Institute Nanofab F [6391510003]
- [13-407] Materials Research Institute Nanofab F [6391510003]
- [18-422] MRI CONFERENCE [800000008927]
- [19-005] Research Collaboration Development Progr [6398810000]

Leeanna Horner (Irm14) has access to the following areas. Which would you like to bill for access?

- Sample Prep Lab
- LTCC Lab

Create area access record

Area Access

- Once logged in to an Area you will see the information on the Landing Page
 - Click on top blue box to change the project your access is charged to
 - Click on the bottom blue box to log out of the area

Validation Needed

There are items that require validation. Please review them now, they will be automatically validated within 5 days of completion.

Upcoming reservations

Sputter: Kurt Lesker CMS-18 #1 Starting on Friday, January 10th @ 1:15 PM Ending on Friday, January 10th @ 2:00 PM

Alerts & outages

New Ion Beam Etching (IBE) System
There is a new IBE system being installed in the
cleanroom next to the new Temescal evaporator.
Testing and Qualification of the system should begin

mid to late January.

Current laboratory usage

You are using the Sputter: Kurt Lesker CMS-18 #1 for the project named [432-48 1001 C FESEM] since Thursday, January 9th, 2020 @ 1:48 PM.

You are logged in to the sample prep lab (area). Usage time is being billed to the project named 13-407. Click to bill to a different project at any time.

You are logged into the sample prep lab (area). Click here to log out of the area.



Calendar



Too



View Usage/Billing Info



Request a LEO Billing Account









Safety

NEW

You MUST validate all transactions you have performed within 5 days of occurrence.

Notification of transaction(s) in need of validation will be on the Landing Page

Validation Needed

There are items that require validation. Please review them now, they will be automatically validated within 5 days of completion.

Validating a Transaction

- Needs to be done within 5 working days
- After 5 working days, transactions will be auto validated

DO NOT RELY ON AUTO VALIDATION! Get into the habit of checking and validating all transactions within 5 working days!

Transaction validation

This page displays transactions conducted by laboratory staff on behalf of users. You can filter by which staff member performed the work, and when, by using the dropdown boxes below.

Each charge can be validated, which means that you have confirmed that the charge is legitimate and correct, and no adjustment needs to be made to it. Press the green 'Validate' button on an individual row to validate a charge. Charges that have already been validated are highlighted in green.

Each charge can also be contested, which means that an adjustment is needed. Press the yellow 'Contest' button on an individual row to contest the charge. Charges that are already being contested are highlighted in yellow.

Tool usage

ID	Operator	User	Project	Start - End	Duration	Tool	Validate	Contest
129	Leeanna Horner (Irm14)	Leeanna Horner	[432-48 1001 NANO FACIL]	Thursday, January 9th, 2020 @ 3:01 PM - None	In progress	ESEM: Q250	Validate	Contest
128	Leeanna Horner (Irm14)	Leeanna Horner	[432-43 30KR MIC SCHOOL]	Thursday, January 9th, 2020 @ 2:31 PM - Thursday, January 9th, 2020 @ 3:01 PM	30 minutes 1 seconds	Coater: Denton	Validate	Contest
127	Leeanna Horner (Irm14)	Leeanna Horner	[432-48 1001 C FESEM]	Thursday, January 9th, 2020 @ 2:20 PM - Thursday, January 9th, 2020 @ 2:29 PM	9 minutes 15 seconds	AFM: Bruker Icon		
126	Leeanna Horner (lrm14)	Leeanna Horner	[432-48 1001 C FESEM]	Thursday, January 9th, 2020 @ 1:48 PM - Thursday, January 9th, 2020 @ 1:57 PM	8 minutes 29 seconds	Sputter: Kurt Lesker CMS-18 #1	Validate	Contest
88	Leeanna Horner (Irm14)	Leeanna Horner	[432-48 1001 C FESEM]	Wednesday, November 6th, 2019 @ 10:51 AM - Wednesday, November 6th, 2019 @ 10:51 AM	seconds	Sputter Coater: Quorum EMS 150R S	Validate	Contest

- Black Waiting for validation
- Yellow Contested
- Green Validated
- Red Contested & Denied

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View charges for Leeanna Horner during January, 2020

Update

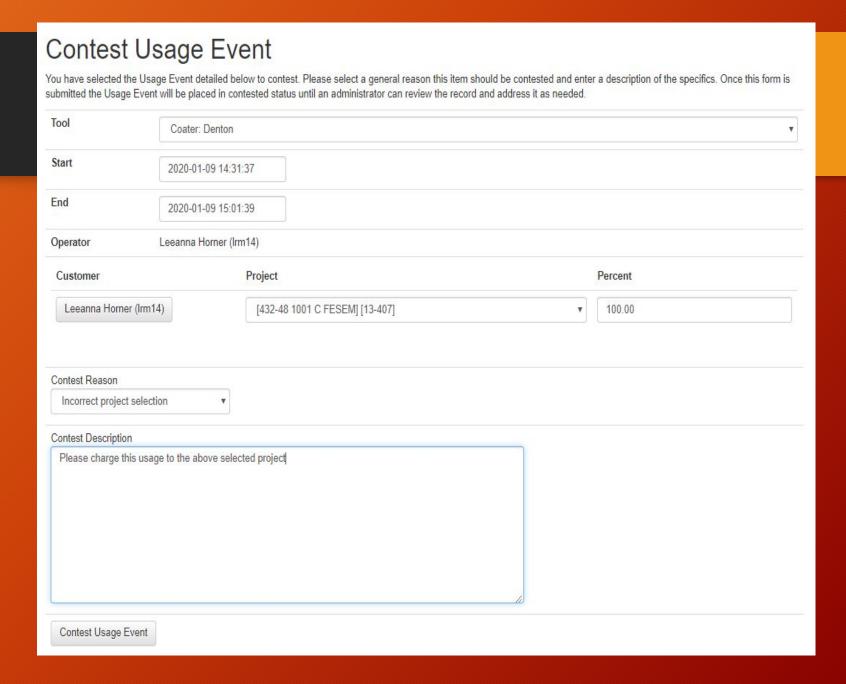
10:51 AM

Tool usage

ID	Operator	User	Project	Start - End	Duration	Tool	Validate	Contest
129	Leeanna Horner (Irm14)	Leeanna Horner	[432-48 1001 NANO FACIL]	Thursday, January 9th, 2020 @ 3:01 PM - None	In progress	ESEM: Q250	Validate	Contest
128	Leeanna Horner (lrm14)	Leeanna Horner	[432-43 30KR MIC SCHOOL]	Thursday, January 9th, 2020 @ 2:31 PM - Thursday, January 9th, 2020 @ 3:01 PM	30 minutes 1 seconds	Coater: Denton	Validate	Contest
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126	Leeanna Horner (lrm14)	Leeanna Horner	[432-48 1001 C FESEM]	Thursday, January 9th, 2020 @ 1:48 PM - Thursday, January 9th, 2020 @ 1:57 PM	8 minutes 29 seconds	Sputter: Kurt Lesker CMS-18 #1	Validate	Contest
73	eeanna Horner rm14)		[432-48 1001 C FESEM]	Wednesday, November 6th, 2019 @ 10:51 AM - Wednesday, November 6th, 2019 @		Sputter Coater: Quorum EMS 150R S	Validate	Contest

Contesting a transaction

- Enter the correct information in the appropriate fields
- Enter a Contest Reason and a Contest Description
- Contested transaction will be accepted or denied by a staff member



Usage and Billing Information

View your usage and billing information by billing cycle

Change

Monthly billing cycles will run from the 25th to the 24th of the following month

Usage and billing information for June, 2020

This page presents a monthly report of your laboratory usage and billing information. Approved adjustments are reflected in the Billing information data but not in the Usage data.

View information for June, 2020 Update

Usage Billing information

Adjustment activities are not included in the usage information

Supplies and consumables

Silver (Ag) for Quorum EMS Sputter Coater

Quantity 200

Purchased from Leeanna Horner (Irm14) on Tuesday, June 16th, 2020 @ 8:03 PM Charged to project [09-378] Materials Research Institute - Nanofab F [6391510003]

Platinum (Pt) for Quorum EMS Sputter Coater

Quantity 200

Purchased from Leeanna Horner (Irm14) on Tuesday, June 16th, 2020 @ 8:03 PM Charged to project [09-378] Materials Research Institute - Nanofab F [6391510003]

Area access

LTCC Lab

Tuesday, June 16th, 2020 @ 9:04 PM
Tuesday, June 16th, 2020 @ 9:04 PM
Charged to project [13-407] Materials Research Institute - Nanofab F [6391510003]

Sample Prep Lab

Tuesday, June 16th, 2020 @ 8:40 PM Tuesday, June 16th, 2020 @ 8:41 PM