

BADGER LMS

USER MANUAL

Version 1.8
02 Jan 2020

VERSION HISTORY

Version #	Changed By	Revision Date	Changes
1.0	Basil Chew	12 Feb 2015	Initial release
1.1	Basil Chew	9 April 2015	2.1 Changed Emergency Crisis Management to Emergency Incident Preparedness
1.2	Basil Chew	11 May 2015	2.2 Update new link for Badger download
1.3	Basil Chew	2 Dec 2015	2.1 Update links to safety webpages
1.4	Basil Chew	3 Jan 2016	Annual review 10.1 refine procedures for deleting Java cache
1.5	Basil Chew	3 Jan 2017	Annual review 2.1 Update links to Core Labs webpage 3.1 Reminder to logout 3.2 Check junk mail folder if new password is not received 4.5.1 Dual mode instruments
1.6	Basil Chew, Yingchun Zhao	3 Jan 2018	Annual review Add acronyms table 2.1 change PI Approval to RFS system from pre-approval form 3.1 remove requirement for lowercase email address 4.2 add new multi-day reservations feature 4.4 automatic cancellation of no-show reservations 10.2 replace preapproval form with RFS
1.7	Basil Chew, Yingchun Zhao	3 Jan 2019	Annual review 2.2 add emphasis on Badger version 2.3 add pocket ID requirement for registration 3.2 update some screenshots 4.0 add Badger MicroServices
1.8	Basil Chew, Yingchun Zhao	2 Jan 2020	Annual review Table of contents-update 2.1 change "checklist" to "procedures", updated 2.2 installing Badger-update the hyperlink 4 Badger Microservices-add the QR code, delete one note 5.7.1 Dual modes-delete 5.8 disabling a device-add one note

ACRONYMS

Acronym	Definition
CLC	Core Labs Charging
LMS	Lab Management System
PI	Principal Investigator
RFS	Request for Service

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INTRODUCTION

1.1 BADGER

Badger is a Lab Management System used in the Core Labs to handle reservations and equipment access. Features include:

- A uniform online instrument booking system, accessible by registered KAUST users. One system to address the needs of all Core Labs.
- Charging capability for tracking costs incurred by individual users and groups.
- Allows trained users to book and reserve time to use instruments and prevent unauthorized access.
- Transparent booking calendar to allow users to view when instruments are available.
- Audit trail functionality for tracing user activity on interfaced instruments.
- On demand reporting facility e.g. Instrument Utilization Report, Charging Report.

2 REGISTRATION PROCESS FOR NEW USERS

2.1 PROCEDURES

2.1.1 Access for full service only

Users who require only Full Service via the RFS (Request for Service) portal need to complete procedures no. ① & ③ below

2.1.2 Access for Training, Independent Use

Users who require trainings and to be independent users, need to complete procedures no. ①-④ below.

① **Submit a one-time PI-Approval on RFS Portal** <https://corelabsrfs.kaust.edu.sa>

- For KAUST internal users, please log in with KAUST IT credentials and submit a one-time request for PI-Approval.
- For KAUST Research and Technology Park users, please register as a KAUST Research Park Tenant user (check box), then log in and submit a request for PI Approval.
- For external users, please contact CoreLabs.Services@KAUST.EDU.SA for more information.

Note: Please do not use Internet Explorer

② **Lab Safety Training**

As per the KAUST Lab Safety Manual, all users of KAUST laboratories must pass the following trainings:

- Laboratory Safety Training
- Hazardous Waste Training
- Emergency Incident Preparedness Training

OR

- Combined Lab Safety Orientation

Note:

- These trainings can be self-enrolled through Bioraft:
<https://kaust.bioraft.com/raft/training/courses>
- If you do not have a KAUST portal account, the required trainings can be completed here:
https://hse.kaust.edu.sa/training/Pages/RS_VisitorTraining.aspx
- Once the certificates are received, please forward your certificates to clc@kaust.edu.sa
- If you need a copy of your certificates please request from researchsafety@kaust.edu.sa

③ **Badger Registration** <https://corelabs.kaust.edu.sa/services/badger>

Download the Badger software on your own (user's) computer or use the client-side on any computer and register as a new member.

Note:

- If you do not know the exact pocket ID that your PI will assign to you, please enter any number during registration; we will correct it based on your PI approval.

④ **To become a qualified user for a specific tool/instrument (Independent User)**

You will need to be trained and qualified on the tool for independent use. Please contact the relevant labs/tool owners directly to arrange for training.

Additional requirement for cleanroom access:

Please follow the link to book an available date for the 'Cleanroom Safety Training' <https://docs.google.com/forms/d/e/1FAIpQLSfAmNyMvzL7a6oxlgdnSrKBduBQBOoxxCXpv4tEh9dlrse56Q/viewform?formkey=dHJNRzZSRXZqWUZXDhTXNHd0c0bFE6MA#gid=0>

2.2 INSTALLING BADGER

- The Badger LMS software requires Java Runtime Environment (JRE) from Oracle-Sun. Please download and install the appropriate [file](#) for your operating system (normally Windows x64 *.exe or Mac OS X x64 *.dmg).

Overview Downloads Documentation Community Technologies Training

Java SE Runtime Environment 8 Downloads

Do you want to run Java™ programs, or do you want to develop Java programs? If you want to run Java programs, but not develop them, download the Java Runtime Environment, or JRE™.

If you want to develop applications for Java, download the Java Development Kit, or JDK™. The JDK includes the JRE, so you do not have to download both separately.

JRE MD5 Checksum

Java SE Runtime Environment 8u31

You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

☐ Accept License Agreement
 ☒ Decline License Agreement

Product / File Description	File Size	Download
Linux x86	40.49 MB	jre-8u31-linux-i586.rpm
Linux x86	61.57 MB	jre-8u31-linux-i586.tar.gz
Linux x64	40.62 MB	jre-8u31-linux-x64.rpm
Linux x64	59.87 MB	jre-8u31-linux-x64.tar.gz
Mac OS X x64	56.79 MB	jre-8u31-macosx-x64.dmg
Mac OS X x64	52.71 MB	jre-8u31-macosx-x64.tar.gz
Solaris SPARC 64-bit	50.86 MB	jre-8u31-solaris-sparcv9.tar.gz
Solaris x64	48.61 MB	jre-8u31-solaris-x64.tar.gz
Windows x86 Online	0.61 MB	jre-8u31-windows-i586-iftw.exe
Windows x86 Offline	29.02 MB	jre-8u31-windows-i586.exe
Windows x86	51.7 MB	jre-8u31-windows-i586.tar.gz
Windows x64	89.1 MB	jre-8u31-windows-x64.exe
Windows x64	54.72 MB	jre-8u31-windows-x64.tar.gz

- Instructions for installation can be found [here](#).
 - If you have problems installing Java please contact IT Helpdesk.
 - Download and install the Badger LMS software [here](#).
- Make sure to download and install **Core labs Badger LMS** software as different versions are used in KAUST.

2.3 CREATING AN ACCOUNT

- Launch the Badger LMS software
- Click on the **New Member?** Button



Badger Lab Management Software

Welcome to KAUST - Badger Lab Management Software

Email

Password

By logging in I accept the terms of the lab agreement.

Badger Lab Management Software

Complete this form to create a new member account. Asterisk fields are required. Click 'Set Password' to submit the form and bring up the password setting dialog. Once your account has been approved you will receive an email notification.

Email*

KAUST ID

First Name*

Last Name*

Lab*

Pocket ID*

Department*

Center*

Phone*

Alt Phone

- Fill in the required fields. For help click on the **View Instructions** button.
- Your email address must be in **lowercase** only.

- If you don't know the **Pocket ID**, enter any number for registration; it will be corrected based on your PI approval.
- Once completed, submit the form by selecting **Set Password**. Any field which is in error will be shown in **red** and should be corrected. Once a password has been set the application moves to the review process. You will receive an email once the account has been approved.

3 LOGGING IN TO BADGER

3.1 EMAIL AND PASSWORD

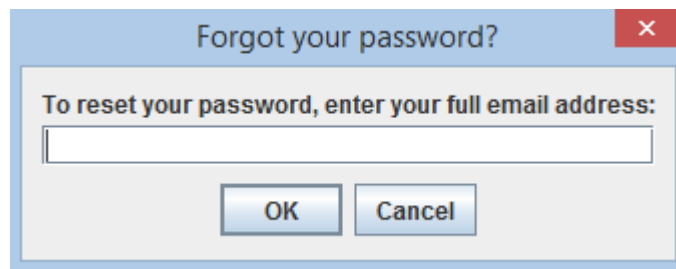
- When logging in KAUST members do not need to enter the domain '@kaust.edu.sa' – all others must enter the entire email address.
- Do not leave your session open as other users may use your account and accrue charges. **It is your responsibility to logout as soon as you have finished your transaction.**

3.2 LOST PASSWORD

- Staff do not have access to existing passwords. You need to request the system to reset your password and email you a randomly assigned one. Click on the **Lost Password** button on the login screen.

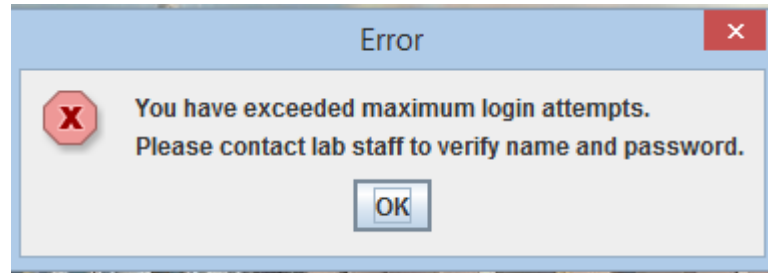


The screenshot shows the 'Badger Lab Management Software' login window. It has a title bar with the text 'Badger Lab Management Software'. Inside the window, there is a greeting 'Welcome to KAUST - Badger Lab Management Software'. Below this are input fields for 'Email' and 'Password'. To the right of the password field is a 'Lab' dropdown menu currently set to 'All Labs'. There is a cartoon badger character on the left. At the bottom, there are buttons for 'Login', 'Cancel', 'News', and 'New Member?'. Below these buttons is a line of text: 'By logging in I accept the terms of the lab agreement.' followed by a 'View Agreement' button and a 'Lost Password?' button which is highlighted in yellow.



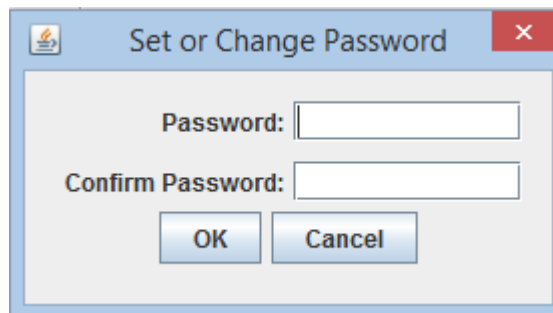
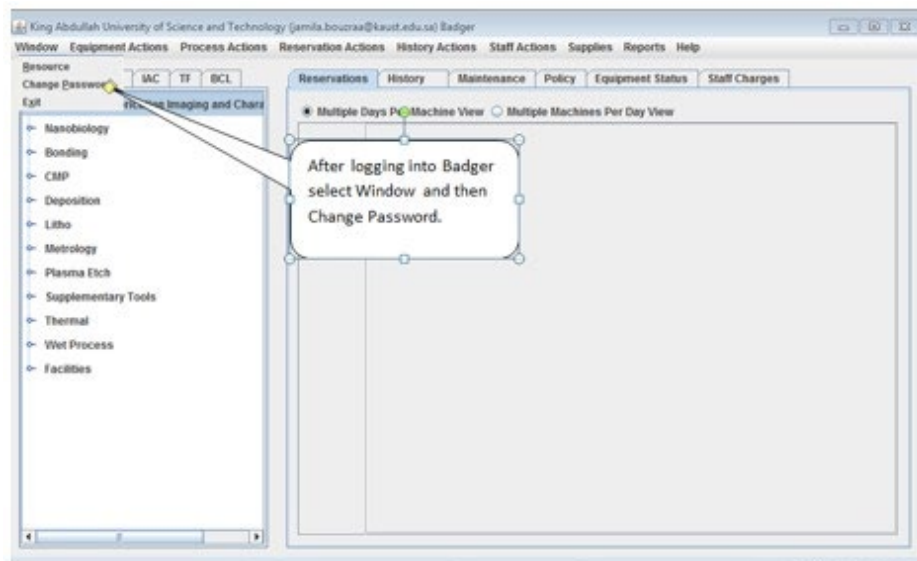
The screenshot shows a dialog box titled 'Forgot your password?'. It contains the text 'To reset your password, enter your full email address:' followed by a text input field. At the bottom are 'OK' and 'Cancel' buttons.

- Your email address must be the same one that you used to register with Badger.
- Check your junk mail folder if you do not receive the new password.
- When receiving the following error message, you also can click on the **Lost Password** button.



3.3 CHANGING YOUR PASSWORD

- After logging in with your temporary password it is strongly recommended you reset it to something you will remember.



4 BADGER MICROSERVICES

- Badger MicroServices is a simplified version of Badger designed to run on mobile devices through a browser.
- To access Badger MicroServices please bookmark the following link to your mobile browser:
 - <https://kaust1.badgerlms.com:8443/WebServices/mbadger>
- Or scan the QR code below to access Badger MicroServices.



The image displays three screenshots of the 'Badger Microservices' web application interface, all accessed from the URL 'kaust1.badgerlms.com'.

Left Screenshot: The login page. It features a 'Login Name' field, a 'Password' field, and a 'Login' button. A cartoon badger character is positioned to the right of the input fields.

Middle Screenshot: The 'Please select from the following labs:' page. It displays a vertical list of blue buttons for the following labs: ACL, ARCL, BCL, CMOR, GH, IAC, KSL, KVL, and NANOFAB.

Right Screenshot: The 'Please select from the following services:' page. It displays a vertical list of blue buttons for the following services: Equipment, Reservations, Supplies, and Exit.

5 RESERVING AND ENABLING TOOLS

- To reserve or use a tool, members need to be qualified on that equipment. Please contact the relevant staff member to conduct the training. Once you have passed the requirements you will be added to the list of qualified users for that tool.
- If you are qualified on a tool, you will see an asterisk next to the equipment name.
- Reserving a tool merely books a time slot for you. To use the tool itself you will need to enable it in Badger. This physically turns on a key component of the tool. **Charges are based on the tool enable/disable times.**

5.1 CREATING A RESERVATION

Stanford Shared Facilities (support@badgerlms.com) Badger

Window Equipment Actions Process Actions Reservation Actions History Actions Staff Actions Supplies Help

Reservations History Maintenance Policy Equipment Status Staff Charges

FEI Nova-Nano SEM_snp Reservations

Multiple Days Per Machine View Multiple Machines Per Day View

Equipment with an * next to the name is equipment that the user is qualified to use.

Stanford Shared Facilities (support@badgerlms.com) Badger

Window Equipment Actions Process Actions Reservation Actions History Actions Staff Actions Supplies Help

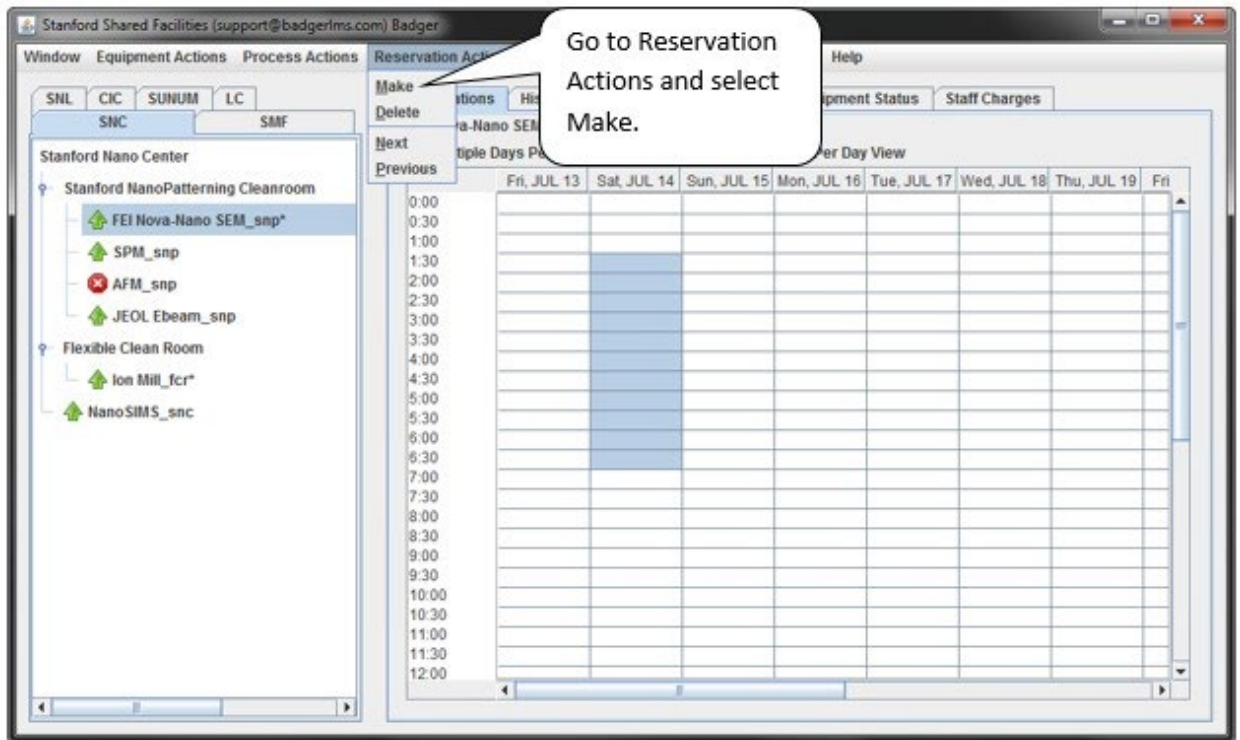
Reservations History Maintenance Policy Equipment Status Staff Charges

FEI Nova-Nano SEM_snp Reservations

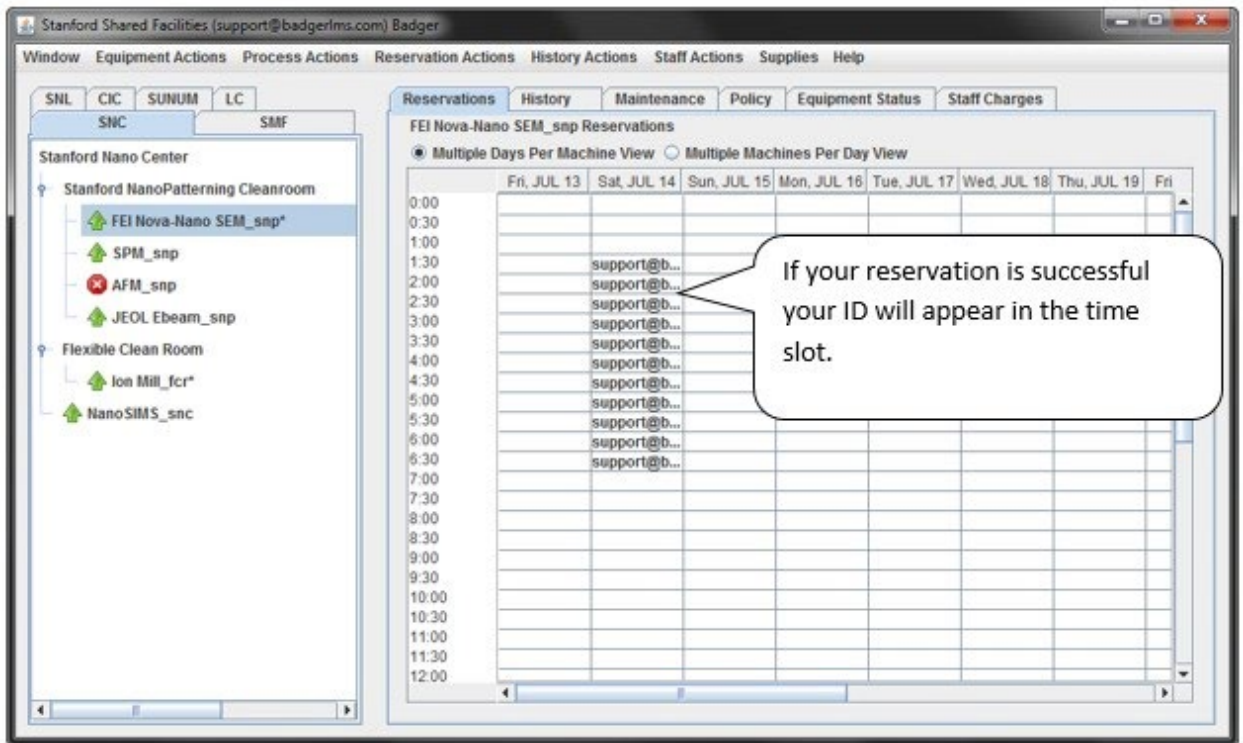
Multiple Days Per Machine View Multiple Machines Per Day View

Click to highlight the equipment that you want to reserve.

Click and drag to select the time slot you would like to reserve.



- After clicking on **Make**, the Machine Reservation Information box will be displayed.
- Select the appropriate **Project**, **Account**, and enter any Process information if needed. When finished click OK and the reservation will be made.
- Clicking on iCalendar will confirm a reservation and send you an email. When you open the email and accept the reservation, the date and time will be added to your calendar.
- Occasionally, reservations are rejected because the lab may have maximum reservation time limits or other policies which conflict with your reservation. Check with lab staff if this occurs.



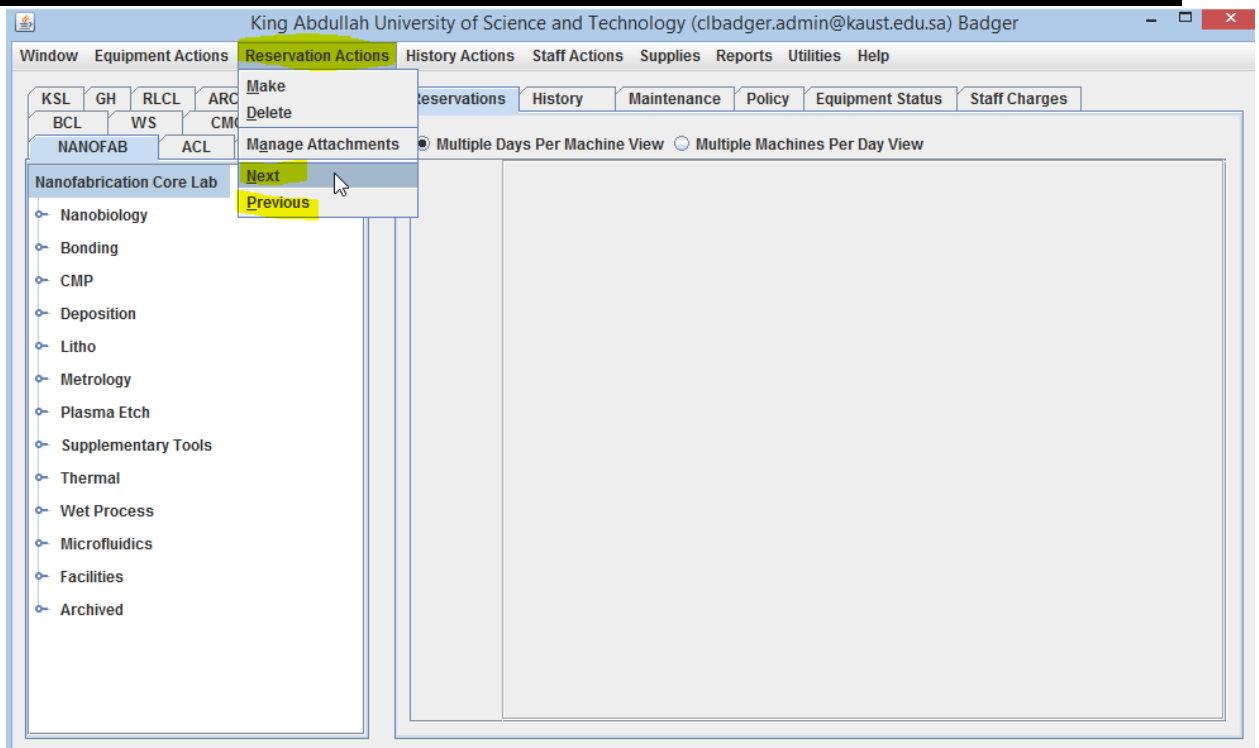
5.2 MULTI-DAY RESERVATIONS

Users may reserve multiple days at a time by right-clicking on a highlighted reservation area.

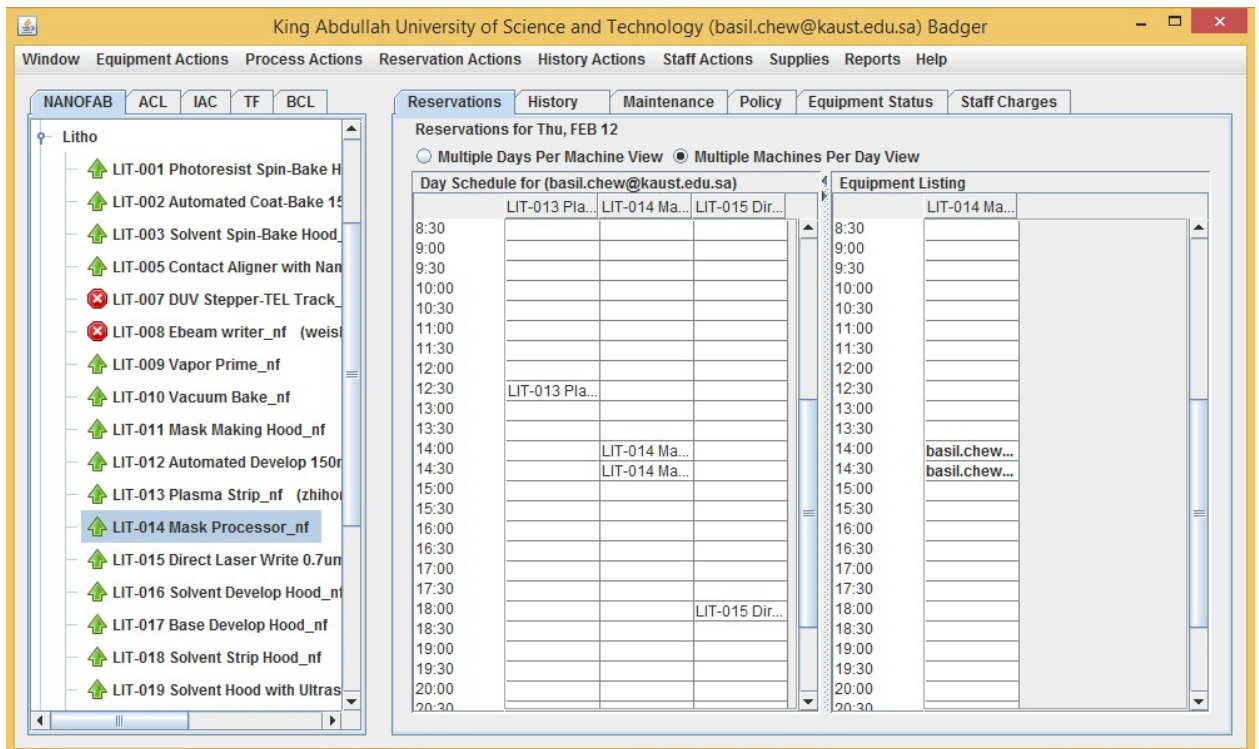


5.3 RESERVATIONS SCHEDULE

To view dates in the past or future, select **Reservation Actions – Next/Previous**.



To see your reserved tools for the day, you can click on the **Multiple Machines Per Day View** in the **Reservations** tab.

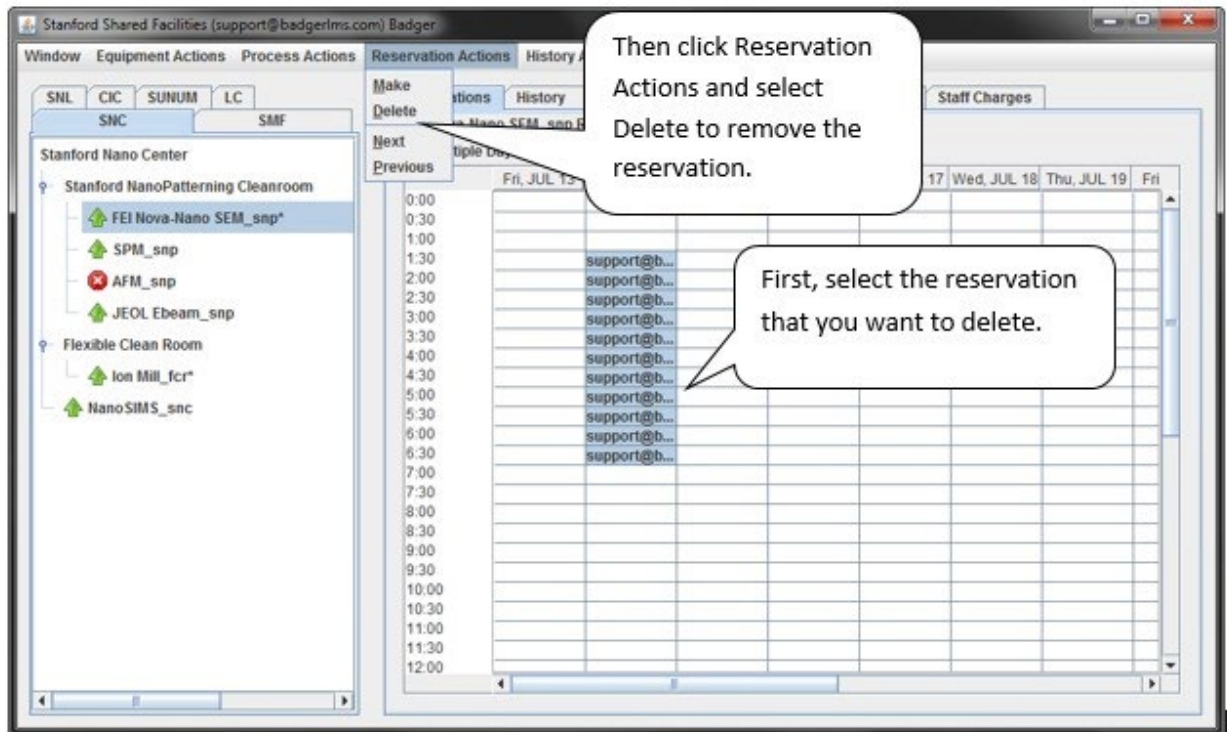


5.4 RESERVATION NO-SHOWS

If you reserve a tool and do not enable it within a certain period your reservation may be automatically cancelled. This grace period differs from tool to tool and is set by the labs. **You may be penalized or charged for the no-show.**

5.5 DELETING A RESERVATION

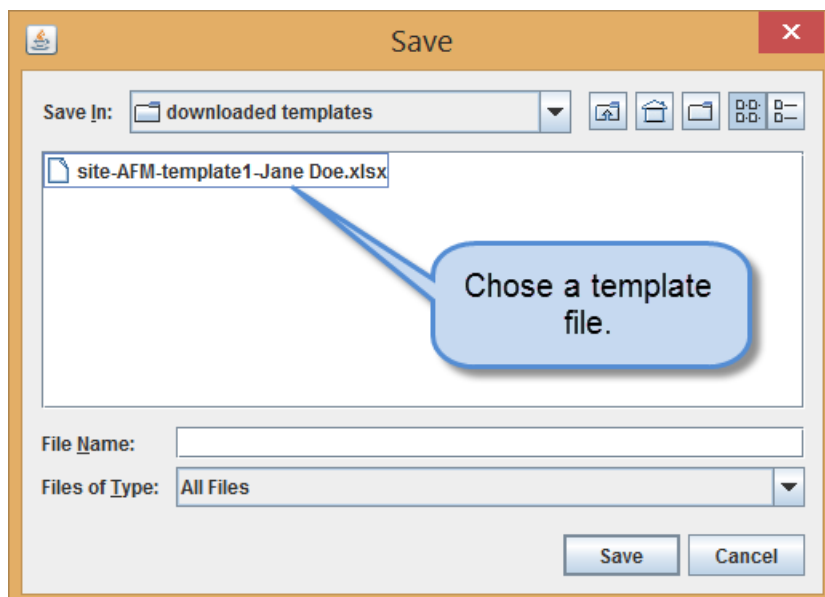
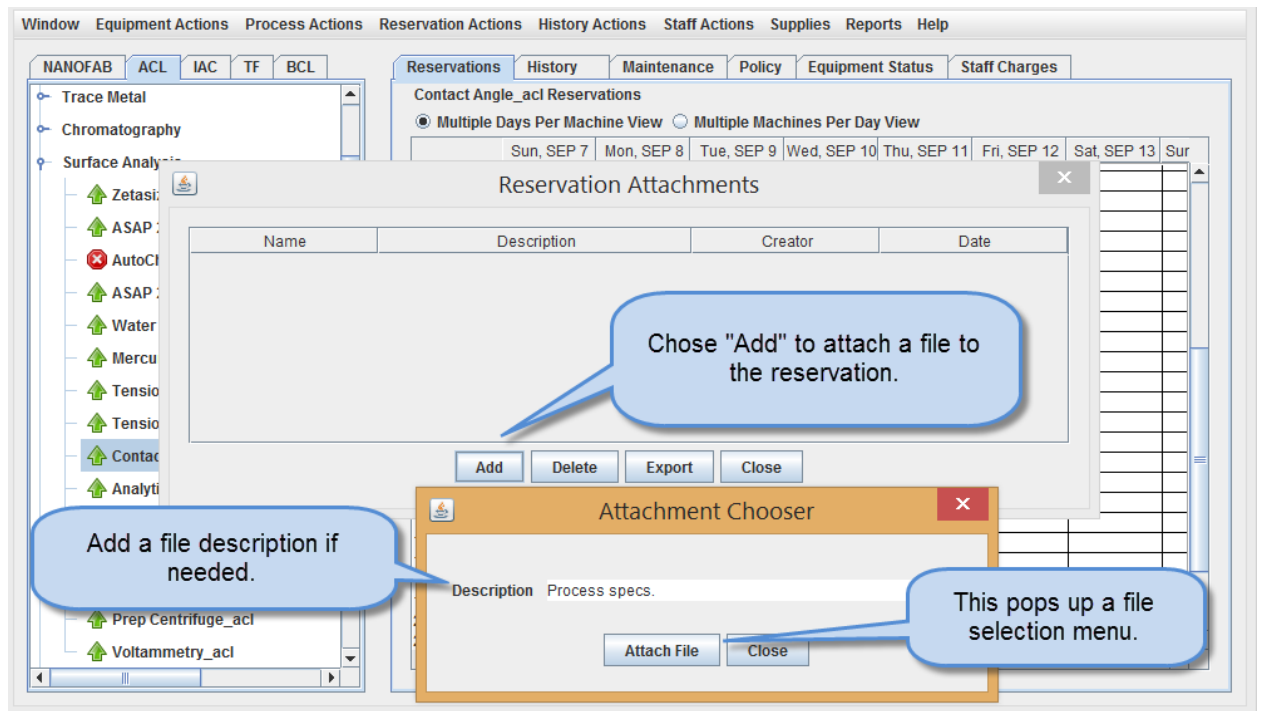
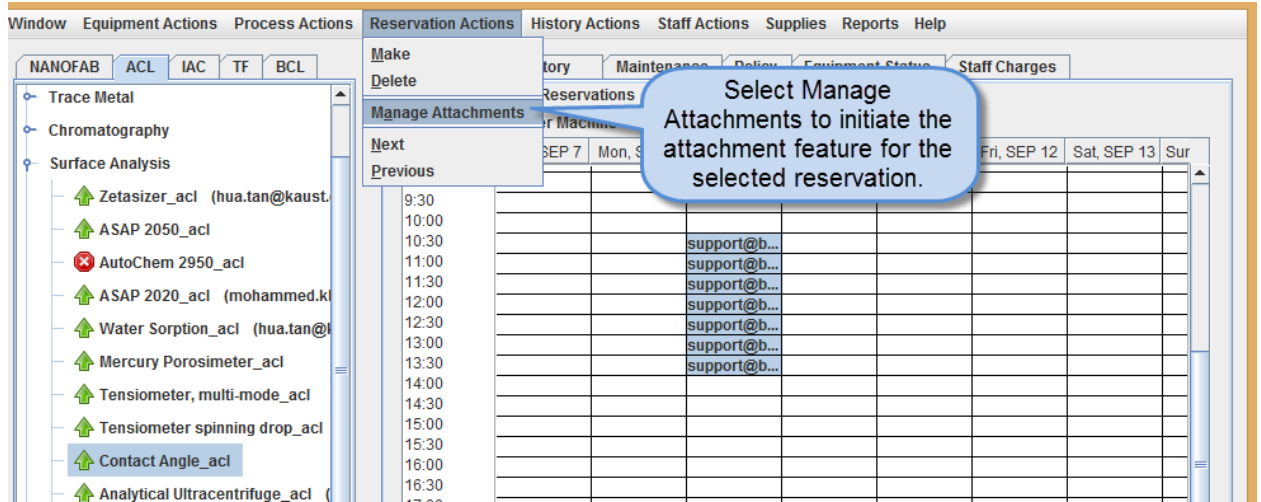
- If a reservation was made in error or you are unable to use the equipment for the time you requested you can remove the requested time.
- You can only delete your own reservations.
- You cannot delete a reservation which is in progress or has expired.
- Please check with the individual labs regarding their cancellation policies.



5.6 RESERVATION ATTACHMENT

There are a number of process scenarios which involve member specified processing instructions which staff may need to know of prior to the actual reservation time. This process information frequently takes the form of a spreadsheet, but may also be a document of another format. The Badger Attachment feature allows a member to attach a file to a reservation within a configurable size limitation.

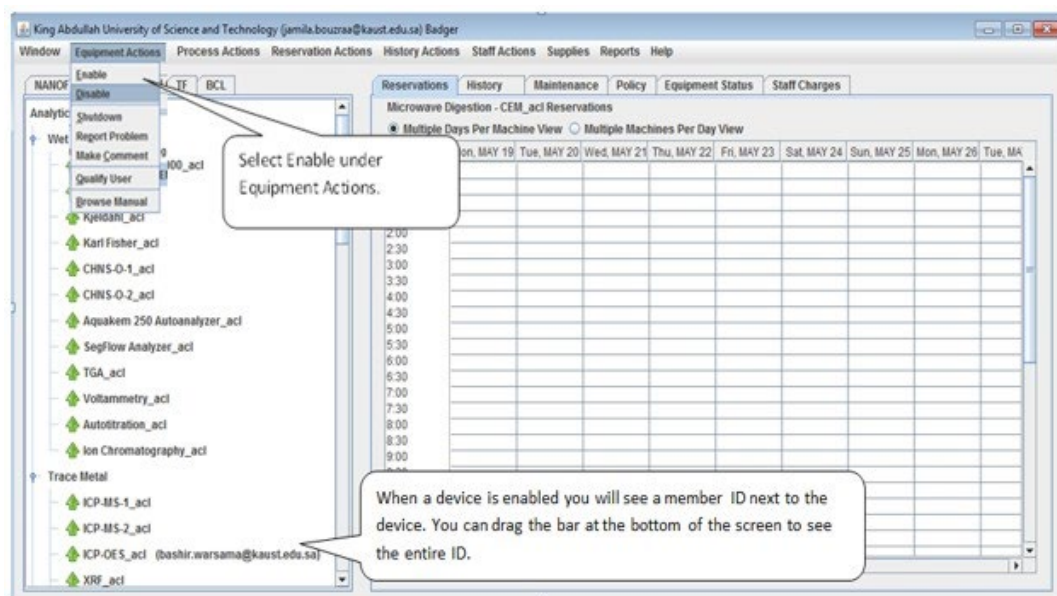
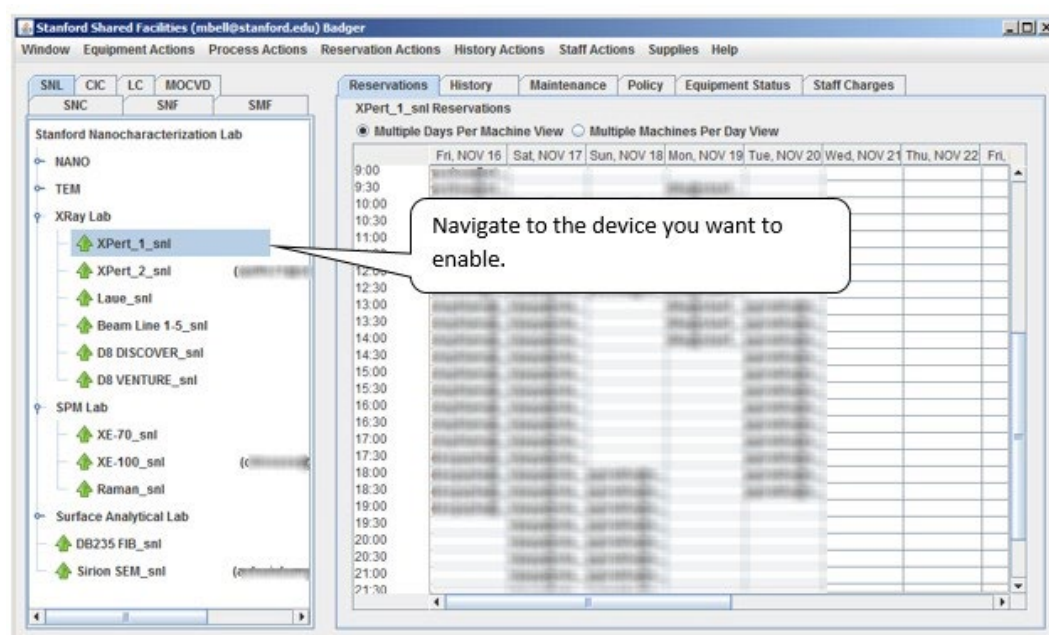
A member should create a reservation just as they normally would by selecting the device, dragging the time slot and selecting project information.

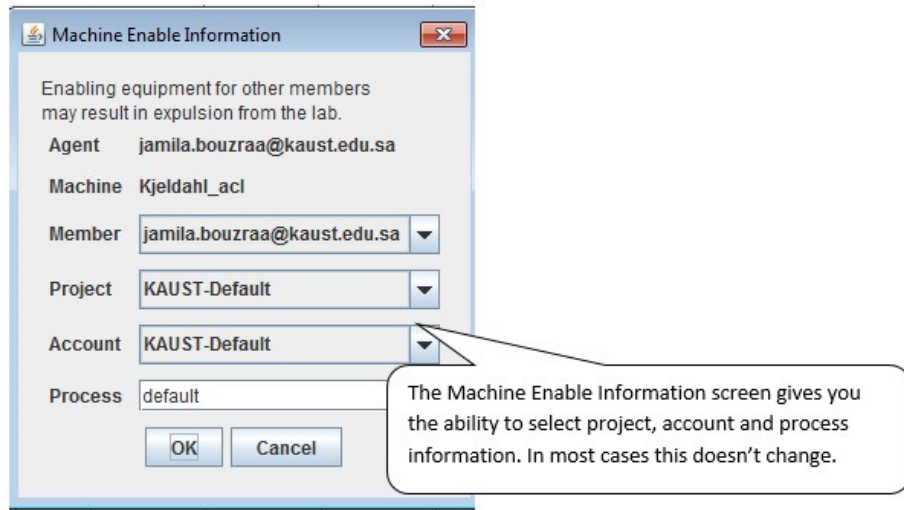


Multiple files may be attached to a reservation. Only staff in the lab may review and download these file attachments.

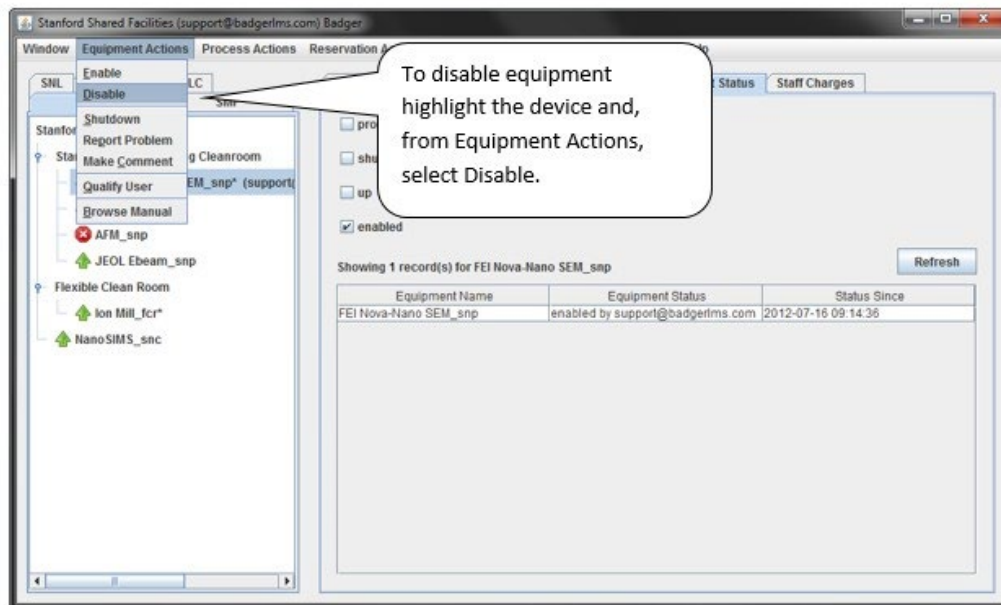
5.7 ENABLING A DEVICE

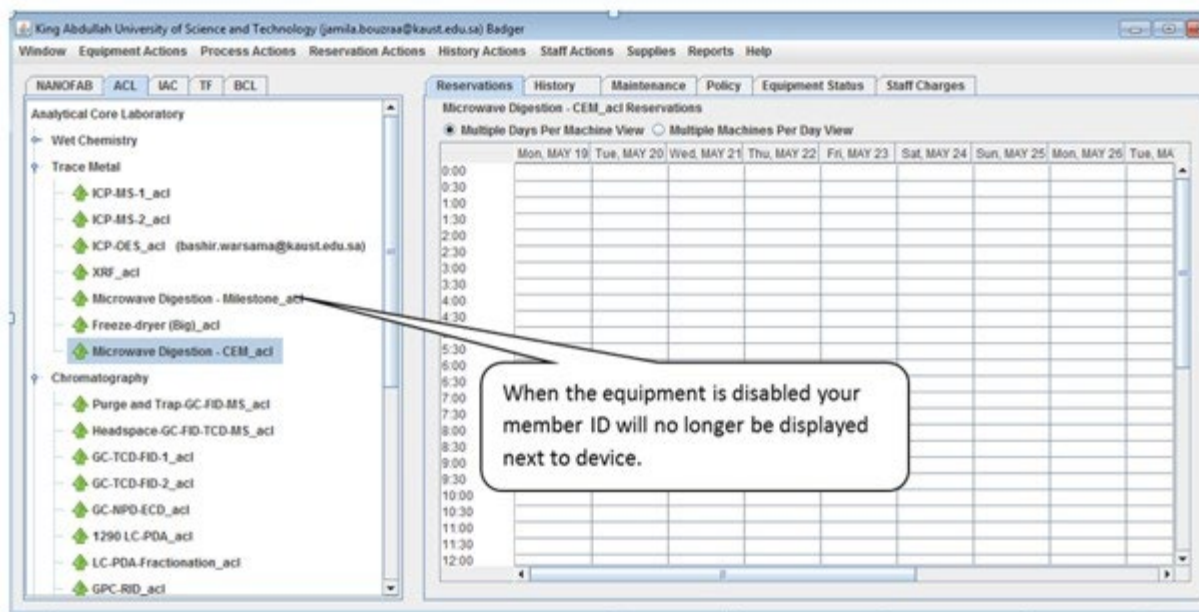
- Before a device may be used you must enable it in Badger. Most equipment have a physical interlock which will prevent some key component from functioning unless the device is enabled in Badger.
- When you have been qualified by staff, it may take few minutes before the qualification propagates out to the system. You may need to log off and log back on to get any new qualifications.
- Charges generally accrue from the moment a device is enabled and continue until the device is disabled.





5.8 DISABLING A DEVICE





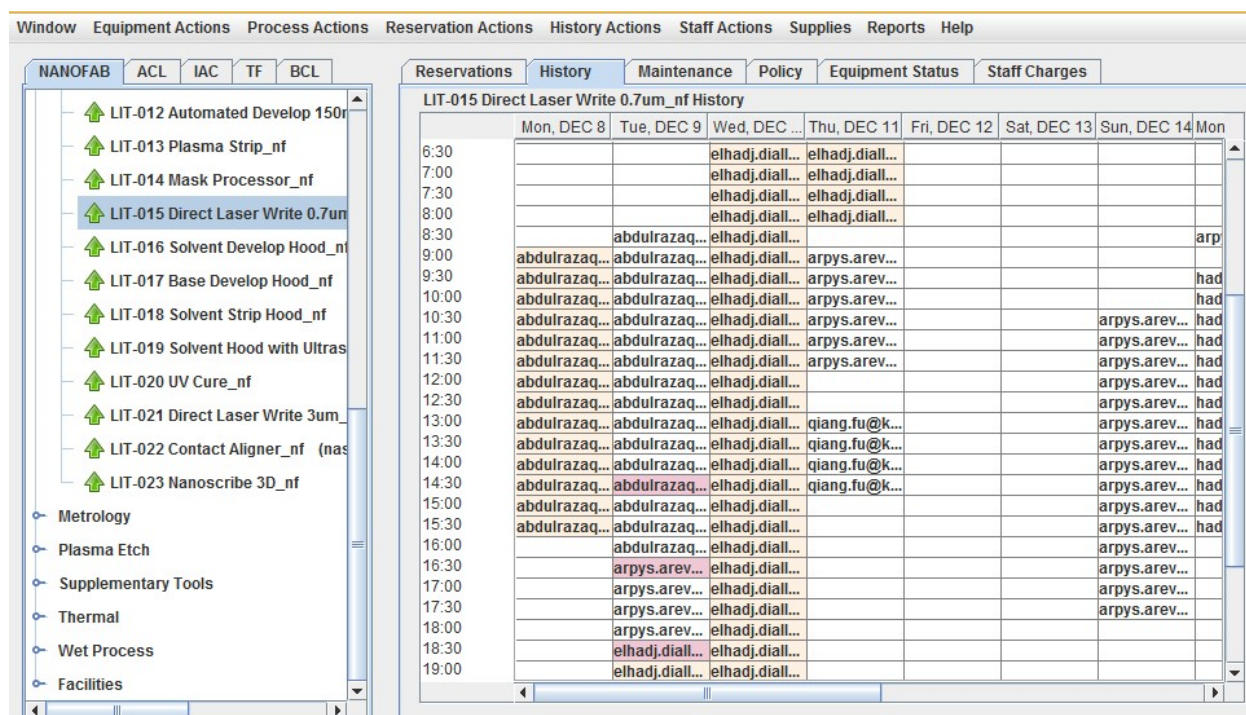
Make sure to disable. If you do not disable the charges will incur for the entire time you have enabled the instrument.

If you have a problem on disabling tools, please contact lab staff or CLC@kaust.edu.sa immediately.

Do not disable Badger if the tool is still running, any misuse of Badger may lead to disciplinary action.

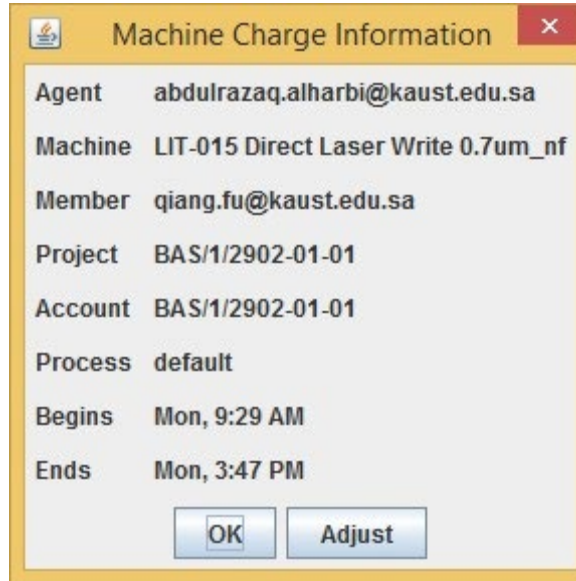
5.9 HISTORY TAB

To view the enable history for a tool, go to the History tab.



If you need to view an earlier or later date, go to **History Actions** and select **Previous** or **Next**.

Double clicking on a calendar entry shows the tool enable details. **Agent** is the staff member or the user who enabled the tool, **Member** is the user who will be charged. In this case a service request was asked for by the member.



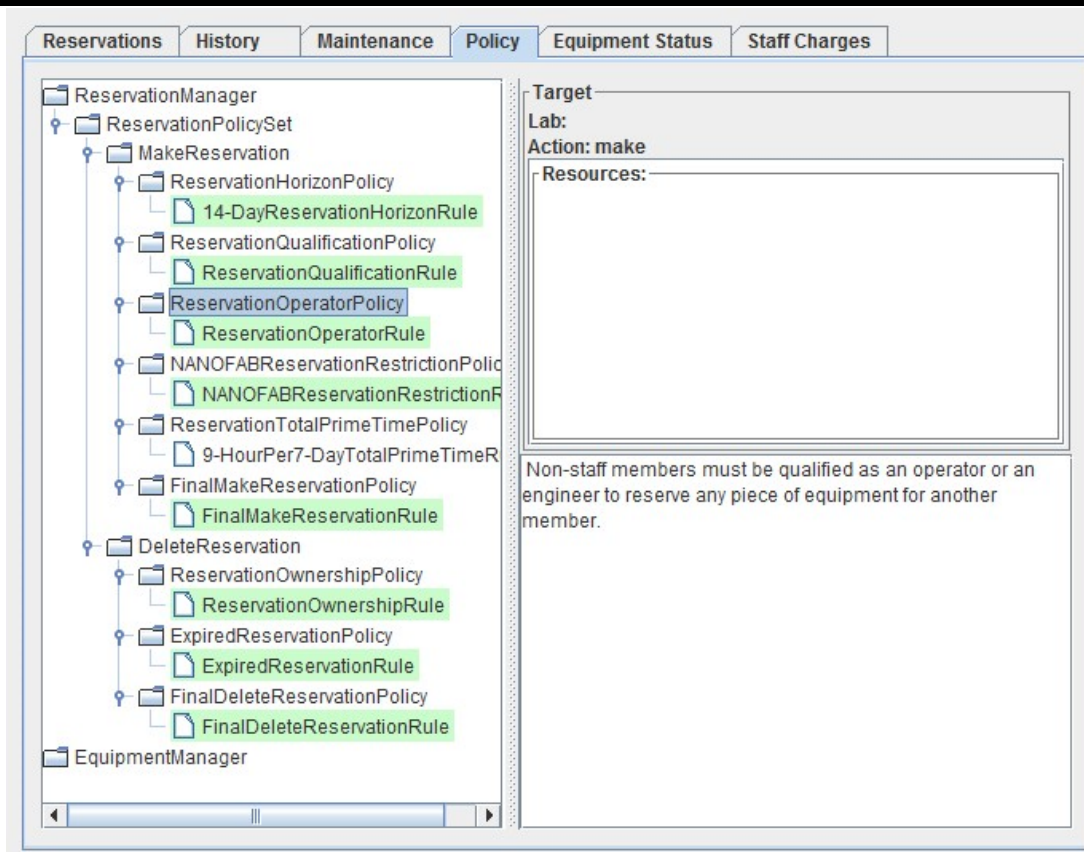
A screenshot of a 'Machine Charge Information' dialog box. The dialog has a yellow title bar with a close button (X) on the right. The main area is white and contains the following fields:

Agent	abdulrazaq.alharbi@kaust.edu.sa
Machine	LIT-015 Direct Laser Write 0.7um_nf
Member	qiang.fu@kaust.edu.sa
Project	BAS/1/2902-01-01
Account	BAS/1/2902-01-01
Process	default
Begins	Mon, 9:29 AM
Ends	Mon, 3:47 PM

At the bottom of the dialog are two buttons: 'OK' and 'Adjust'.

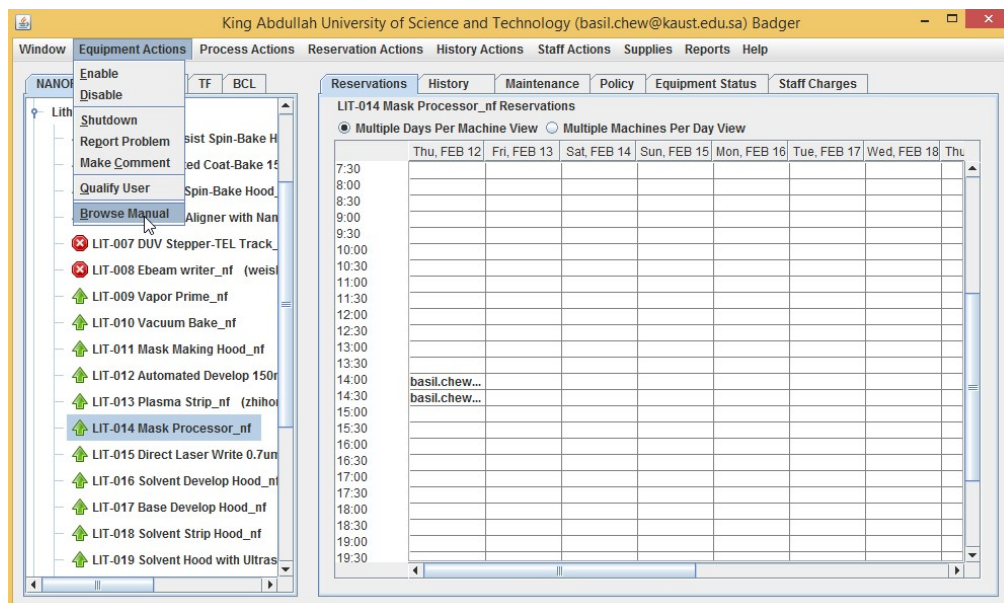
6 RESERVATION POLICY

To view the reservation policies, select the Policy tab. Clicking on the icons will give an explanation of the policy.



7 TOOL MANUALS/STANDARD OPERATING PROCEDURES

- Tool manuals can be accessed from the **Equipment Actions** menu.
- Simply select the tool of interest and click on **Equipment Actions, Browse Manual**.
- Not all tools may have a manual/SOP attached.



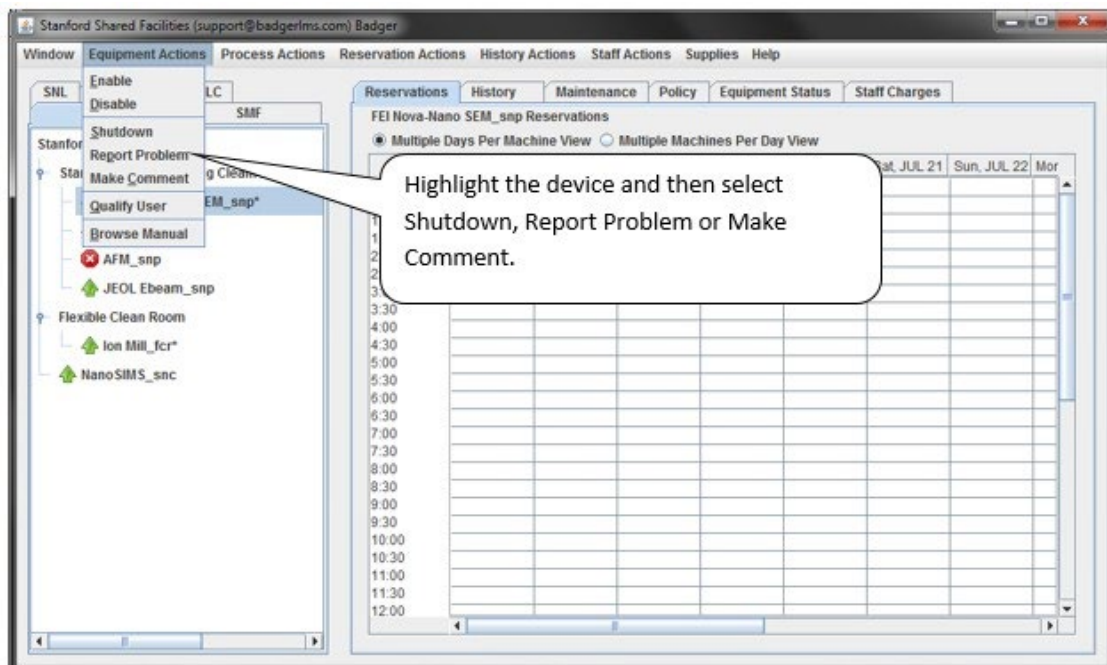
8 TOOL ISSUES

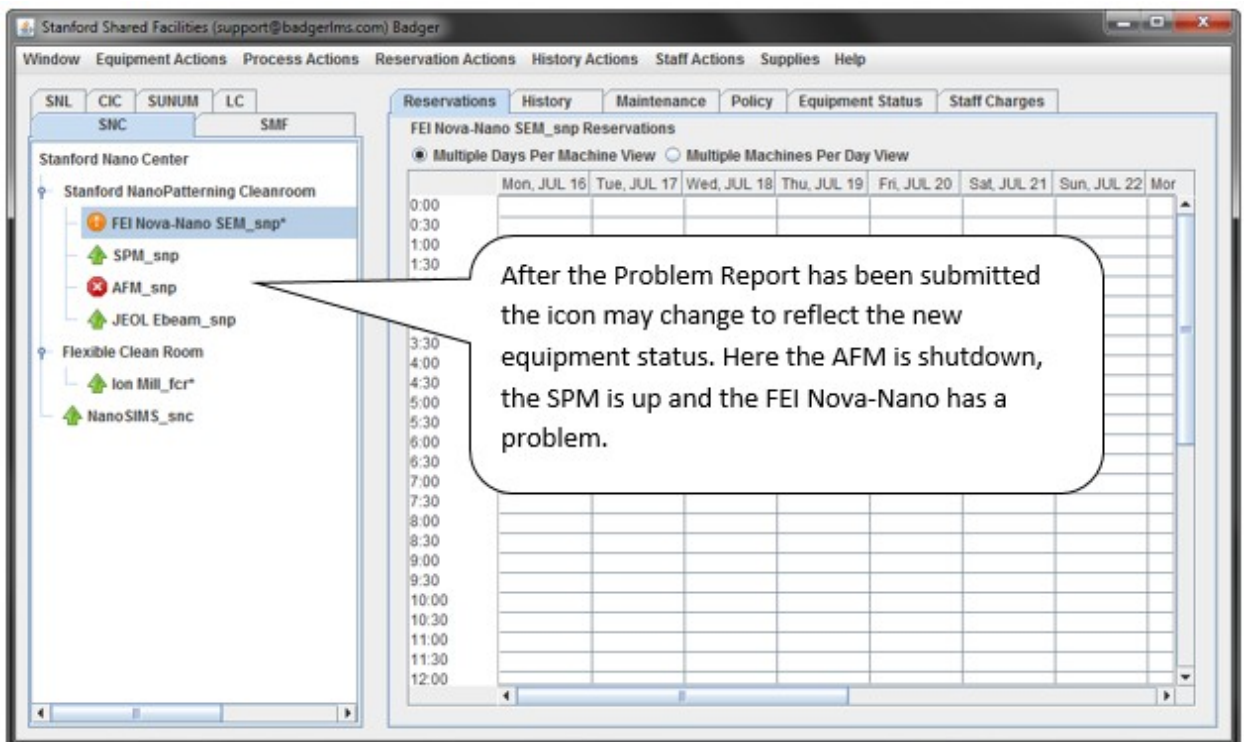
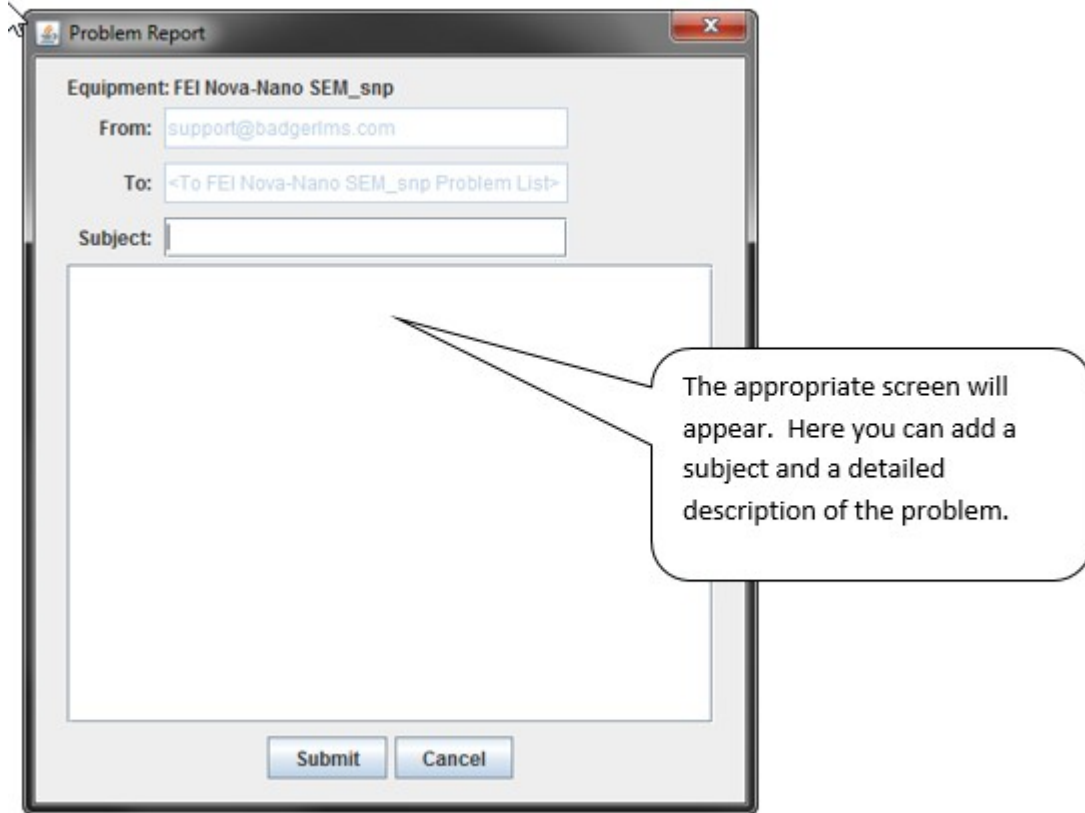
8.1 TOOL STATUS ICONS



8.2 REPORTING TOOL ISSUES

- If you encounter problems while using the tool you have the following options:
 - Make Comment: Insert a comment for staff. Tool remains in full operational mode.
 - Report problem: Insert a subject and detailed description of the problem. Tool status icon will show **"The tool has equipment problems"** but can still be enabled.
 - Shutdown: Insert a subject and detailed explanation of shutdown reason. Tool status icon will show **"The tool is shutdown"**. You cannot enable the tool until the shutdown is cleared by staff.
- Any member can shutdown, report problems or make a comment.
- A shutdown or problem can only be cleared by staff.





8.3 REVIEWING MAINTENANCE INFORMATION

- Details on tool shutdowns, problems and comments can be found in the **Maintenance** tab.

- Simply select the tool, entry of interest and click on the **Show Message** button.

King Abdullah University of Science and Technology (basil.chew@kaust.edu.sa) Badger

Window Equipment Actions Process Actions Reservation Actions History Actions Staff Actions Supplies Reports Help

NANOFAB ACL IAC TF BCL

Reservations History Maintenance Policy Equipment Status Staff Charges

LIT-013 Plasma Strip_nf Maintenance Record

YYYY/MM/DD

From: 2013 / 9 / 4 Search

To: 2013 / 12 / 3

Unresolved Resolved Comments Problems Shutdowns

Resolv...	Type	Time Submitted	Subject
<input checked="" type="checkbox"/>	SHUTDO...	2013/11/17 15:17...	test
<input checked="" type="checkbox"/>	SHUTDO...	2013/11/17 15:23...	Pump not working
<input checked="" type="checkbox"/>	PROBLEM	2013/12/03 14:46...	plasma problem
<input type="checkbox"/>	SHUTDO...	2013/12/03 14:49...	

Clear Comment/Problem/Shutdown Show Message Showing 4 record(s)

To see more detailed information about a piece of equipment highlight the entry and select Show Message.

Specify the type of information you are interested in and the date range, the select Search. Notice that you can elect to see Resolved issues as well as those still Unresolved.

9 INVENTORY CHECKOUT

- Check with lab staff for a price list of items in the lab.
- The supply tree does not display until you select Check Out as shown below.

King Abdullah University of Science and Technology (jamila.bouzraa@kaust.edu.sa) Badger

Window Equipment Actions Process Actions Reservation Actions History Actions Staff Actions Supplies Reports Help

NANOFAB ACL TF BCL

Advanced Nanofabrication Imaging and Characteri

Mask Blank 5inch_nf

Mask Box 5inch 20 slots_nf

Au 99.99% per gram_nf

Pt 99.99% per gram_nf

Reservations History Maintenance Policy Equipment Status Staff Charges

Check In Check Out

Multiple Days Per Machine View Multiple M

Item Check Hide Supply Tree

Go to Supplies and select Check Out.

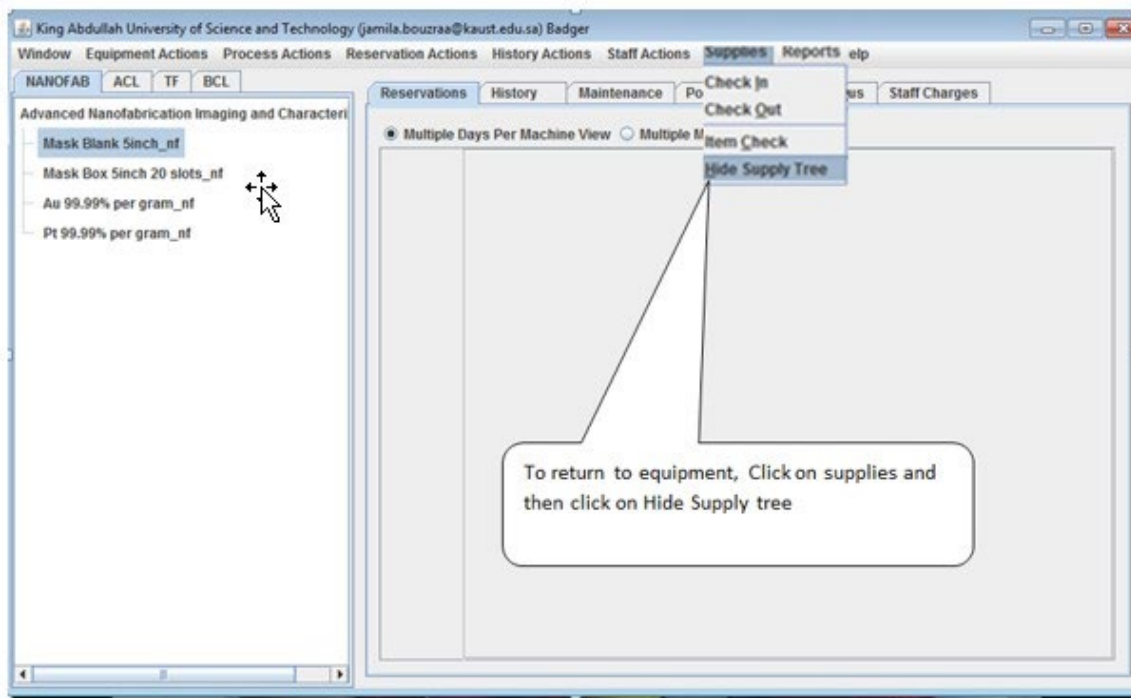
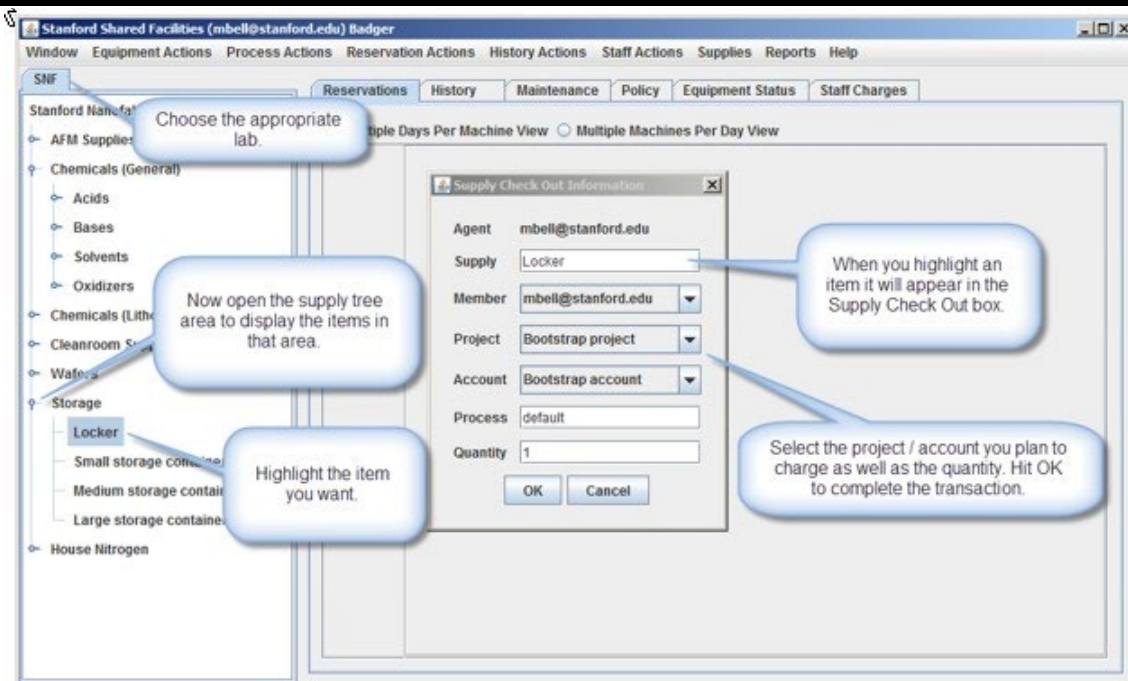
Supply Check In Information

Agent jamila.bouzraa@kaust.edu...

Supply

Quantity 1

OK Cancel



10 MEMBER REPORTS

- Members can see a report on their activities via the Reports menu selection at the top of the screen. While Members may only view their own activities they will find that the Financial Detail report is parameterized to enable a variety of queries. Once a report is created it can be downloaded to your computer and input into Excel or other applications.
- Principal Investigators or Advisors will be able to see details of all users registered under them.

King Abdullah University of Science and Technology (basil.chew@kaust.edu.sa) Badger

Window Equipment Actions Process Actions Reservation Actions History Actions Staff Actions Supplies Reports Help

NANO FAB ACL IAC TF BCL

LIT-003 Contact Aligner with non...
 LIT-007 DUV Stepper-TEL Track...
 LIT-008 Ebeam writer_nf (weis...
 LIT-009 Vapor Prime_nf
 LIT-010 Vacuum Bake_nf
 LIT-011 Mask Making Hood_nf
 LIT-012 Automated Develop 150r...
 LIT-013 Plasma Strip_nf (zhiho...
 LIT-014 Mask Processor_nf
 LIT-015 Direct Laser Write 0.7um...
 LIT-016 Solvent Develop Hood_nf...
 LIT-017 Base Develop Hood_nf
 LIT-018 Solvent Strip Hood_nf
 LIT-019 Solvent Hood with Ultras...
 LIT-020 UV Cure_nf
 LIT-021 Direct Laser Write 3um...
 LIT-022 Contact Aligner_nf
 LIT-023 Nanoscribe 3D_nf

Metrology

Reservations History Maintenance Policy Equi

LIT-022 Contact Aligner_nf Reservations

Multiple Days Per Machine View Multiple Machines P

	Sat, FEB 14	Sun, FEB 15	Mon, FEB 16	Tue, FEB 17	Fri, FEB 20	Sat, FEB 21
7:30						
8:00	rami.afand...					
8:30	rami.afand...	xiaoqiang.s...	rami.afand...			
9:00	rami.afand...	rami.afand...	rami.afand...	xiaoqiang.s...	xiaoqiang.s...	
9:30	xiaoqiang.s...	rami.afand...	xiaoqiang.s...	xiaoqiang.s...	abdulmajid...	
10:00	xiaoqiang.s...	rami.afand...	xiaoqiang.s...	rami.afand...	abdulmajid...	
10:30	abdulmajid...	xiaoqiang...	abdulmajid...	rami.afand...	xiaoqiang...	
11:00	aftab.huss...	aftab.huss...	aftab.huss...	aftab.huss...	xiaoqiang.s...	
11:30	aftab.huss...	aftab.huss...	aftab.huss...	aftab.huss...	abdulmajid...	
12:00	abdulmajid...	abdulmajid...	caraveoja...	abdulmajid...		
12:30	abdulmajid...	abdulmajid...	caraveoja...	narendra.k...		
13:00	jihoon.park...	rami.afand...	xiaoqiang...	abdulmajid...	meng.li@k...	
13:30	jihoon.park...	rami.afand...	xiaoqiang...	jhonathan.r...	meng.li@k...	
14:00	xiaoqiang...	xiaoqiang.s...	rami.afand...	xiaoqiang...	jhonathan.r...	
14:30	xiaoqiang...	xiaoqiang.s...	abdulmajid...	xiaoqiang...	xiaoqiang.s...	
15:00	aftab.huss...	aftab.huss...	aftab.huss...	aftab.huss...	xiaoqiang.s...	
15:30	aftab.huss...	aftab.huss...	aftab.huss...	aftab.huss...	marco.allio...	
16:00	abdulmajid...	jhonathan.r...	jhonathan.r...	xiaoqiang.s...	marco.allio...	
16:30	abdulmajid...	abdulmajid...	abdulmajid...	xiaoqiang.s...	marco.allio...	
17:00	gobind.das...	meng.li@k...	xiaoqiang.s...	xiaoqiang.s...	marco.allio...	
17:30	gobind.das...	meng.li@k...	xiaoqiang.s...			
18:00	narendra.k...	jihoon.park...	marco.allio...			
18:30		jihoon.park...	marco.allio...			
19:00						
19:30						

Financial Detail
 Financial Summary
 Reservations
 Advisor Financial Detail
 Advisor Financial Summary
 PI Financial Detail
 PI Financial Summary

Stanford Shared Facilities (luc@stanford.edu) Badger

Window Equipment Actions Process Actions Reservation Actions History Action

SNC SNF SMF SNL CIC LC MOCVD

Stanford Nanofabrication Facility

- Beam Tools
 - maskscrub
 - raith*
 - sem4160
- Optical Photolithography
 - Resist Coat
 - Exposure
 - Develop
 - Oven Bake and Cure
- Chemical Vapor Deposition
 - ALD
 - Low Pressure CVD
 - PECVD
 - epi2
- Metalization
- Dry Etching
- Annealing, Oxidation and Doping
- Wet Benches
- Wafer Bonding, Sawing and Polishing
- Characterization and Testing
- Facilities

Reservations Lab

Multiple Days

Report

Choose a lab and report from the list

SNL
 SNC
 SNF
 SMF
 SNL
 CIC
 LC
 MOCVD

Reports are created on a per lab basis. Choose the lab with activity you would like to report on.

Stanford Shared Facilities (snf@stanford.edu) Badger

Window Equipment Actions Process Actions Reservation Actions History Actions

Lab: SNF
Report: Financial Detail

Account type: all
Activity type: all
Equipment: all
Member email: researcher@stanford.edu
Account: *
Display data from: 09/2012 to 11/2012
Cancel Display

Enter the requested information above and click display.

Date ranges can be changed to show multiple months. Use the format MM/YYYY.

Notice that your member email is pre-populated. You may only report on your own activities.

All other fields are available for selection.

Stanford Nanofabrication
Beam Tools
Optical Photolithography
Resist Coat
Exposure
Develop
Oven Bake and Cure
Chemical Vapor Deposition
ALD
Low Pressure CVD
PECVD
Metalization
Dry Etching
Annealing, Oxidation and Doping
Wet Benches
Wafer Bonding, Sawing and Polishing
Characterization and Testing
Facilities

Member Financial Detail

item	type	bdate	agent	project	project_type	account	amount	cost
600M SB Liquid NMR_jac	eq_activity	2017-11-01 1...		77-0...	local		31.0	3.10
600M SB Liquid NMR_jac	eq_activity	2017-11-23 1...		77-0...	local		60.0	6.00
600M SB Liquid NMR_jac	eq_activity	2017-12-05 1...		77-0...	local		16.0	1.60
600M SB Liquid NMR_jac	eq_activity	2017-12-07 1...		77-0...	local		24.0	2.40
600M SB Liquid NMR_jac	eq_activity	2017-12-10 1...		77-0...	local		53.0	5.30
700M SB Liquid NMR_jac	eq_activity	2017-11-08 1...		77-0...	local		97.0	14.55
700M SB Liquid NMR_jac	eq_activity	2017-11-16 1...		77-0...	local		44.0	6.60
700M SB Liquid NMR_jac	eq_activity	2017-12-04 0...		77-0...	local		29.0	4.35
700M SB Liquid NMR_jac	eq_activity	2017-12-04 1...		77-0...	local		38.0	5.70
700M SB Liquid NMR_jac	eq_activity	2017-12-06 1...		77-0...	local		26.0	3.90
700M SB Liquid NMR_jac	eq_activity	2017-12-11 0...		77-0...	local		44.0	6.60
950M SB Liquid NMR_jac	eq_activity	2017-11-06 0...		77-0...	local		167.0	41.75
950M SB Liquid NMR_jac	eq_activity	2017-11-10 1...		77-0...	local		23.0	5.75
950M SB Liquid NMR_jac	eq_activity	2017-11-13 0...		77-0...	local		39.0	9.75
950M SB Liquid NMR_jac	eq_activity	2017-11-13 1...		77-0...	local		28.0	7.00
950M SB Liquid NMR_jac	eq_activity	2017-11-15 1...		77-0...	local		84.0	21.00
950M SB Liquid NMR_jac	eq_activity	2017-11-20 1...		77-0...	local		43.0	10.75
950M SB Liquid NMR_jac	eq_activity	2017-12-17 1...		77-0...	local		35.0	8.75
Bruker D2 PHASER_jac	eq_activity	2017-11-05 1...		77-0...	local		78.0	1.30
Bruker D2 PHASER_jac	eq_activity	2017-11-05 1...		77-0...	local		7.0	0.12
Nova Nano_jac	eq_activity	2017-11-05 1...		77-0...	local		45.0	9.00
Nova Nano_jac	eq_activity	2017-11-06 1...		77-0...	local		29.0	5.80

Chart Print Save (Text) Save (Excel) Close

- Clicking on a heading allows you to sort on that column.
- **Amount** is the number of minutes a device was enabled or inventory count.
- **Cost** indicates the current cost for this use as calculated at midnight. For performance reasons cost figures are recalculated each night and not at the time a report is run.
- **Type:** eq_activity=tool usage, inven_activity=samples/supplies, staff_activity = staff time

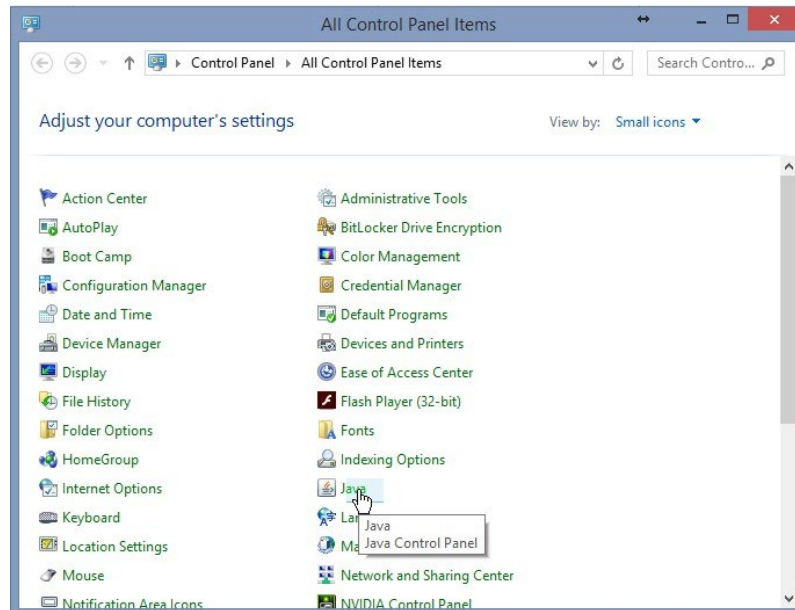
11 TROUBLESHOOTING

11.1 UNABLE TO LAUNCH BADGER

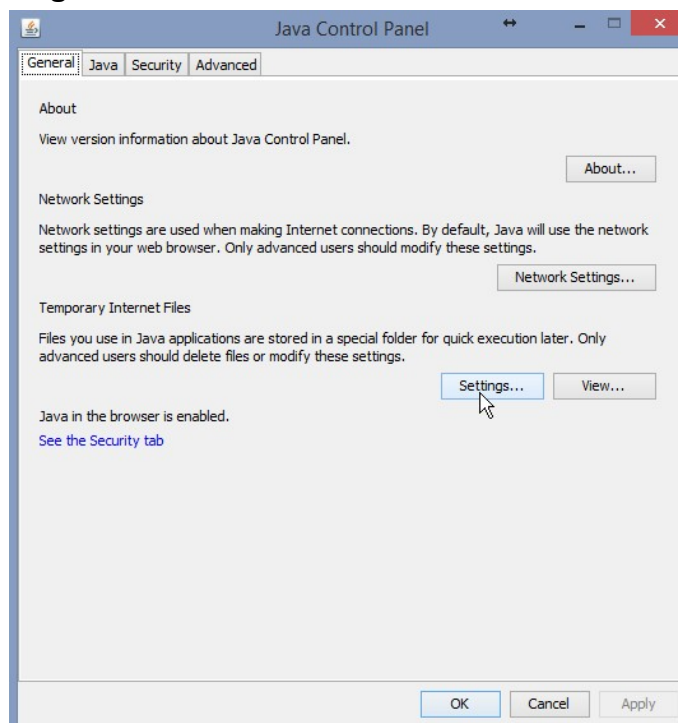
Badger is a Java Web Start application. If you are unable to launch Badger you may need to do a clean reinstall using the following steps:

11.1.1 For windows users

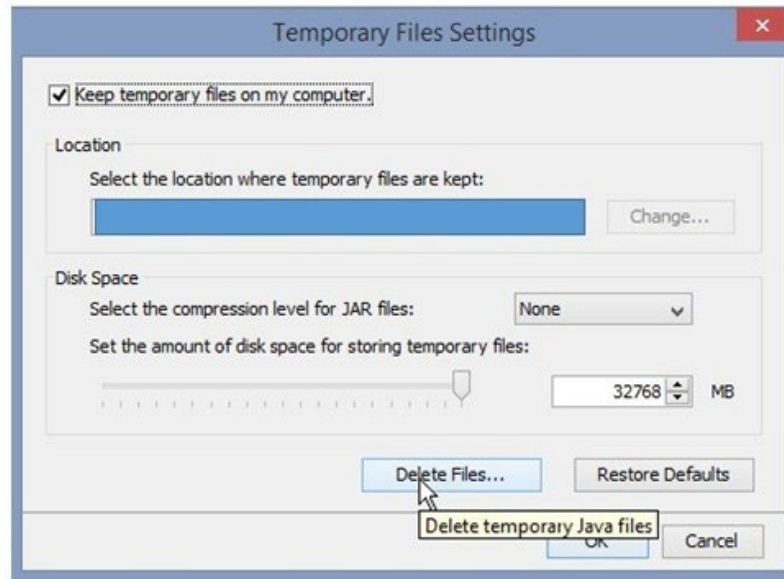
- Go to the Control Panel and select **Java**.



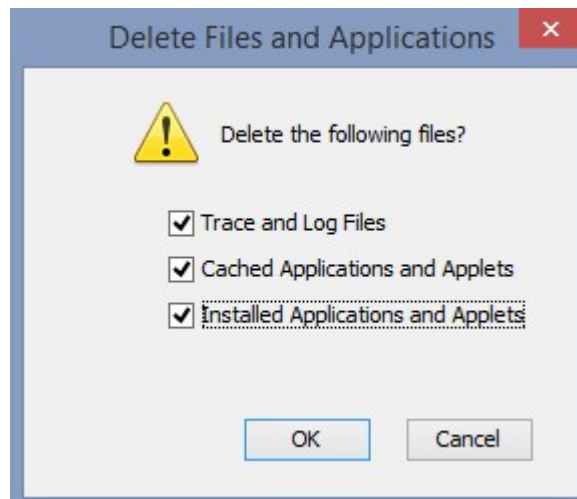
- Select **Settings...** in the **General** tab.



- Click on **Delete Files...**



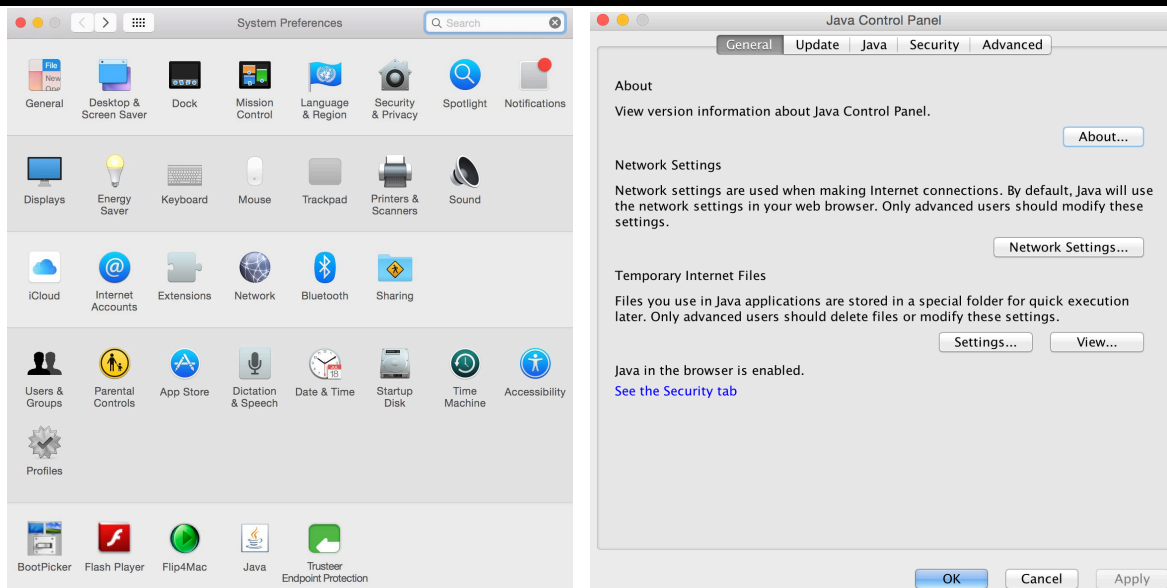
- Select all checkboxes and hit **OK**.



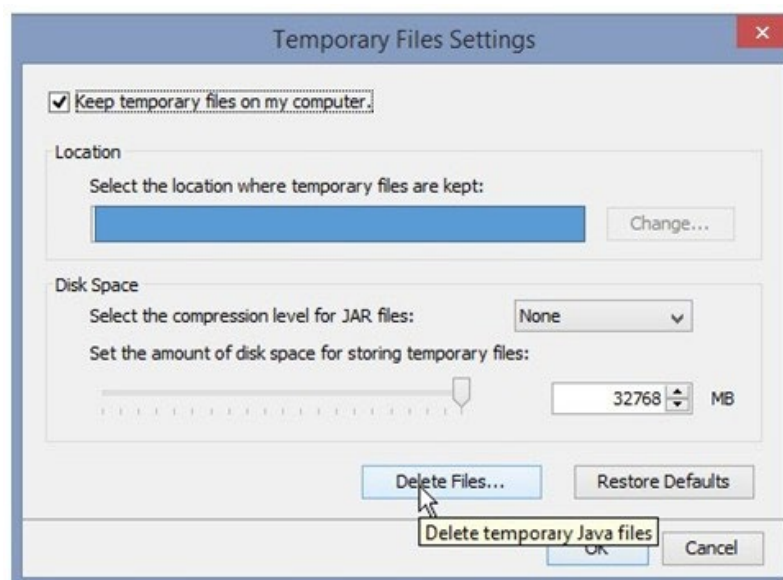
- Reinstall the Badger application using instructions provided in section 2.2.

11.1.2 For Mac users

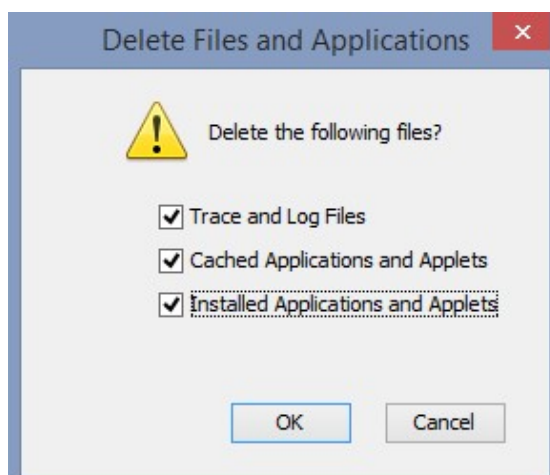
- Launch System Preferences and click on the Java icon at the bottom. This will open a new Java Control Panel.



- In the **General** tab, click the **Settings...** button.
- Click on **Delete Files...**



- Select all checkboxes and hit **OK**.



- Reinstall the Badger application using instructions provided in section 2.2.

11.2 FAQs

- Registration – When I register on Badger it only allows me to select one Lab. Does this mean I can only use one lab?
No. The system just requires that you select a Lab but you will automatically be eligible to use all the Core labs depending on your certification and training.
- Registration – When I register on Badger it only allows me to enter one pocket ID. Can I use multiple Pocket IDs?
Yes. To avoid errors in entering multiple Pocket IDs during registration you are only required to enter one pocket ID. However if you wish to use more than one you will have to submit these pocket IDs in the RFS system. No pocket ID can be used unless it has been approved by the Principal Investigator in RFS.
- Charging – Can one pocket ID be shared on the system by multiple PIs?
No. Each Pocket ID only has one owner in RFS system and SAP, the information in all three systems must be the same.
Charging – Can a user select from multiple pocket IDs for charging purposes?
Yes.

11.3 CONTACT INFORMATION

Please send an email to clc@kaust.edu.sa if you have any questions.