

The cleanroom hood has an integrated face cover, but must be worn the correct way to be effective.





Plastic bags available for face covering storage while in the cleanroom (in your pocket).

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A combination approach to cleaning and disinfection

MIT Custodial:

- Custodial staff have received enhanced training in cleaning and disinfecting touch points in public areas.
- Cleaning of high-touch points and restrooms is done twice daily using a registered EPA List N disinfectant solution.

MIT.nano:

- Supplementing with external cleaning staff to regularly clean and disinfect high-touch points in the gowning rooms in Buildings 39 and 12.
- Used safety glasses will be disinfected on a weekly basis and put back into rotation.
- · Provide disinfectants in the lab.

YOU:

- Continue practicing good hygiene.
- Clean in / clean out your workstation and equipment.
- Follow the new gowning and shared PPE protocols... more on this next.



Types of disinfectants you will find in MIT.nano for SARS-CoV-2:

- · Quaternary ammonium solutions (Morning Mist, Shockwave) disrupts lipid membranes
- 70% alcohol (isopropanol or ethanol) disrupts lipid membranes
- Activated hydrogen peroxide solutions (PREempt) oxidative damage

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Disinfection signage will be posted in the lab

Spray bottles of 70% isopropanol will be distributed throughout the lab in strategic locations.

Must remain wet for at least 1 minute to be effective against SARS-CoV-2.





Please disinfect shared PPE before and after use.

covid19.mit.edu

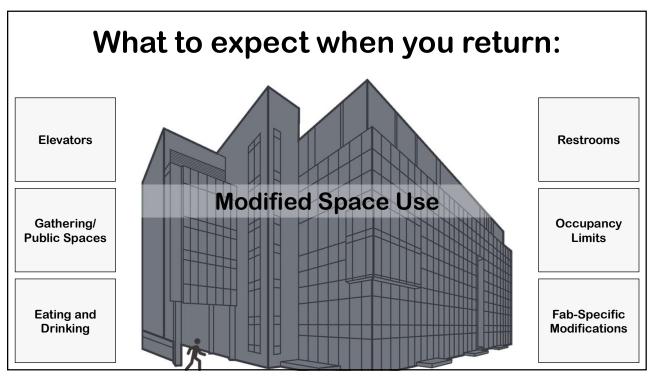


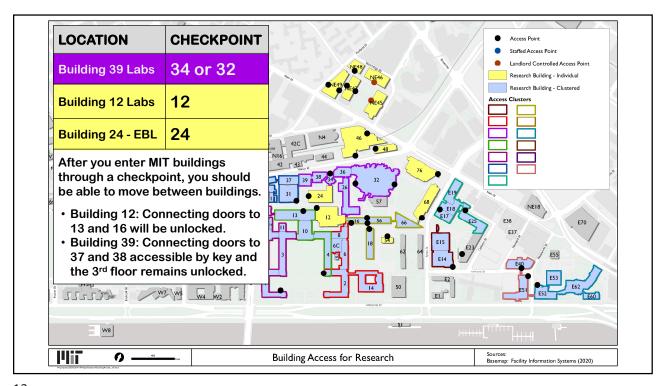
New protocols minimize shared gowning and PPE

Whenever possible, protocols have been modified to eliminate sharing of garments and PPE.

ITEM	USE	CLEANING/DISINFECTION
Bunny suits & frocks	• Individual use (NO sharing)	- Laundered weekly
Safety Glasses	Bring your ownIndividual use from stock supply (NO sharing)	 User disinfects before/after use with 70% IPA User keeps with bunny suit or puts in used bin Used safety glasses will be disinfected weekly
Face Shields	Shared	- User disinfects before/after use with 70% IPA
Chemical Apron and Arm Gauntlets	• Shared	- None, not necessary
Nitrile Gloves	Individual use	- None, disposable
Nitrile/Neoprene Gloves	Individual use	- None, disposable
Trionic Gloves	• Shared	- None, additional gloves are worn underneath

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Plan ahead to avoid gathering and eating in MIT.nano

LOCATION	STATUS	
2 nd Floor Kitchen (B39)	Closed	
Adler Room (B39)	• Closed	
Conference Rooms (B12)	Level 3: ClosedLevel 4: Closed	
	Level 5: Closed	
Innovation Alcoves (B12)	 Level B: Active EM reservations only Level 3: Closed Level 4: Closed 	
Seating areas (B12)	12-0168: ClosedLevel 1: ClosedLevel 3: ClosedLevel 4: Closed	

Quick Tip: Use the auto-fillers on water fountains, if available, or bring your own drinking water.



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Dedicated handwashing stations and all-gender restrooms located in Buildings 39 and 12

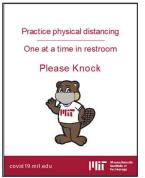
One restroom on each level will be converted to a single occupancy hand-washing station. Doors will be propped open to reduce touch points.



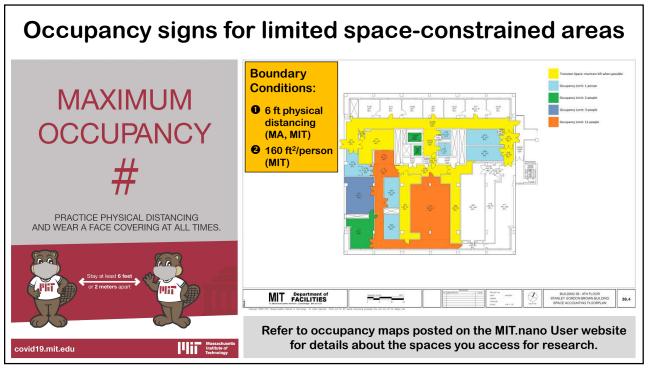


One restroom on each level will be converted to a single occupancy all-gender restroom. Remember to knock before entering.

This is an all-gender restroom.



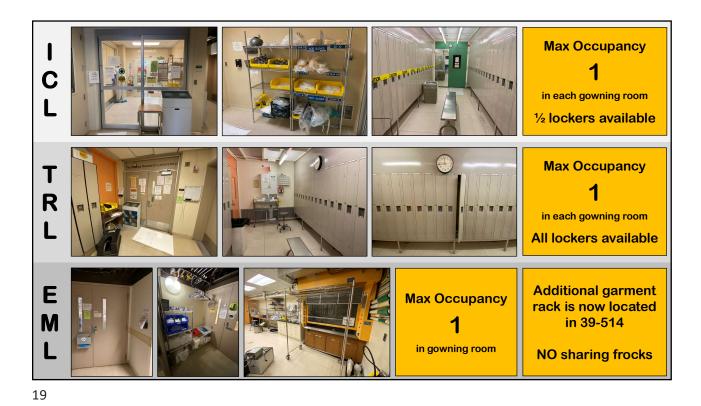
This will improve access to hand-washing sinks and throughput for enhanced hygiene practices.



Gowning Specifics: FAB.nano Building 39

- · Back to laundered garments!
 - · NO shared garments in all Building 39 labs.
 - Tyvek Frocks in EML will be stored on a larger rack in the old deposition (AJA) room.
 Gown as normal in the entry area, then enter the lab to get your frock.
- Vinyl Gloves moved to lab entry points. Gloves go on first to minimize touch contamination.
- One person per locker, sign up in advance, the locker is yours for the week.
 - · Garments will be removed and lockers disinfected on Mondays.
 - Green tape across a locker door indicates the locker is cleaned and no one has opened
 it yet.
 - · Move green tape to door and write your name for identification.
 - $\bullet\,$ Plastic bags will be used for garment storage in the ebeamFP room.
- · Safety Glasses:
 - · Bring your own safety glasses.
 - If you use lab stocked safety glasses, store in your locker or hanger for the week.
 - Do not put used safety glasses back in the bins or cabinet with clean glasses.
 - $\bullet \ \ \text{Used safety glasses will be cleaned and returned to the rotation the following Monday}.$
- Plastic bags will be available for face covering storage while in the cleanroom (in your locker or pocket).
- Nitrile Gloves will be available in the normal "glove room" as PPE for the cleanroom, this is identical to Building 12 protocol.





Specifics: EBL Building 24

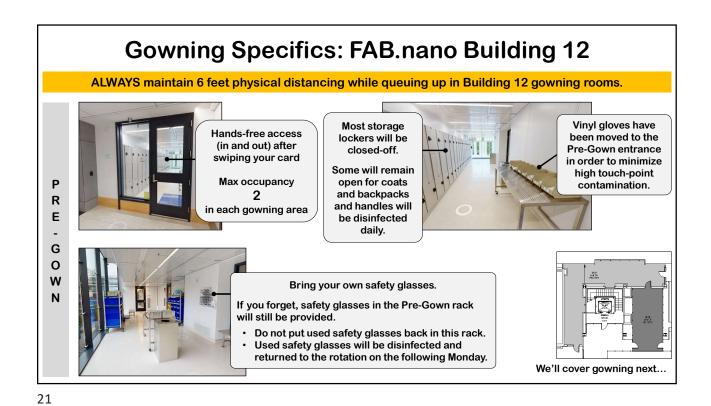
- Users will wear face coverings and gloves in any part of the lab (not just the clean area).
- · Users will store shoe covers and frocks in a plastic bag with their name.
- Bouffant caps and gloves will be disposed of in the usual, labeled waste containers.
- Users should wipe down and disinfect work stations before and after use with provided disinfectant (keyboards, mouse, etc)

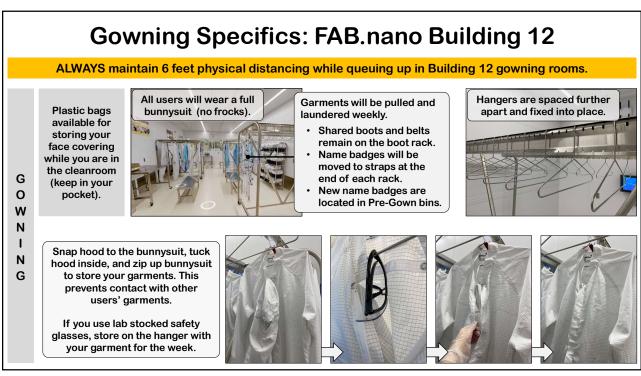










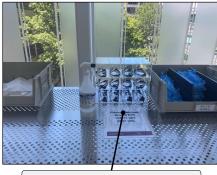


Specifics: 5th Level Packaging Lab

ALWAYS maintain 6 feet physical distancing while working in the Packaging Lab.

Wearing a personal face covering is required at all times.





Bring your own safety glasses. If using the stocked supply, disinfect before use. Place in the Used Bin when finished.



70% Isopropanol disinfectant near the diesaw.

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Reminders of what hasn't changed:

The chemicals, gases, and hazards that we work with in the lab have not changed. Inside the lab, in many cases these hazards pose a higher risk to your health and safety than SARS-CoV-2.

As a result most of our lab policies remain the same.

Some highlights include:

- Continue proper chemical hygiene and hazardous waste management practices:
 - · Only store compatible chemicals together
 - $\bullet \ \ \text{Minimize hazardous chemical use and use less hazardous alternatives, when possible}$
 - Always add acid to water
- Use proper Personal Protective Equipment (PPE)
 - · All times: Safety Glasses
 - · Solvents and photolithography: Nitrile Gloves
 - Corrosive hoods and wet benches: Aprons, Arm Gauntlets, Face Shields, and Corrosive Gloves (Trionic in 39, Nitrile-Neoprene in 12)
 - Note that Vinyl Gloves are not PPE



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Some highlights include:

- · Working Alone Policy
 - Best practice is to always have a buddy nearby for safety and responding to emergencies
 - A buddy is REQUIRED for working on any corrosive hood or wet bench (acids, bases, oxidizers)
 - · In Building 12 or 24 a buddy is not required for other work
 - · Remote Buddy policy still applies in Building 39
- · Emergency Response:
 - Police, fire, or medical emergency: Call 100 or 617-253-1212
 - · Lab emergencies: In Building 39 call 617-253-1500 and ask for the MTL ERT
 - Lab emergencies: In Building 12 call 617-258-8674 for the MIT.nano ERT
- Lab support phone: Call 617-253-0426 for delivery of chemicals and supplies, now including requests for precious metals.



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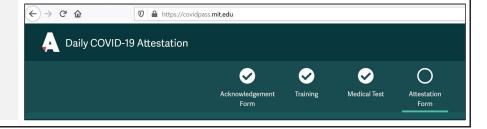
Prerequisites for accessing the lab:

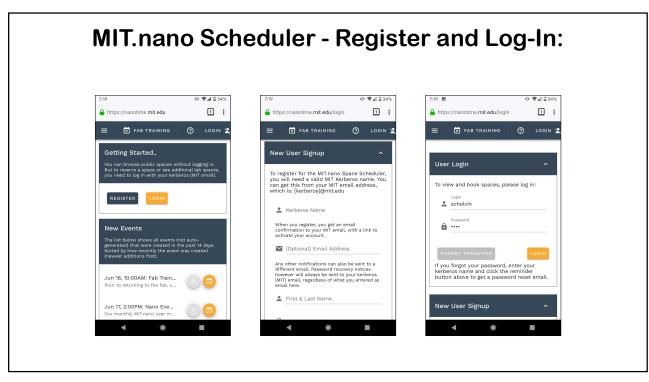
MIT Prerequisites

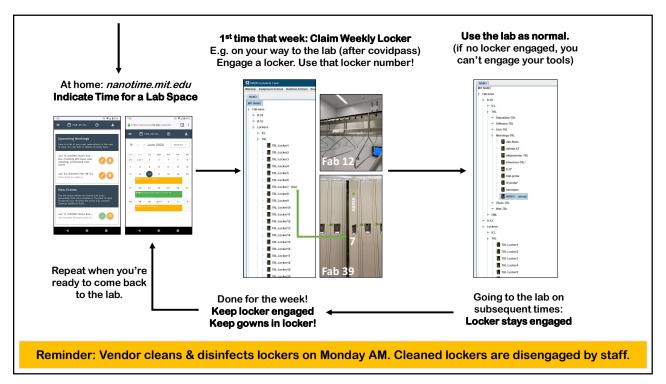
- · Check marks on COVID Pass.
 - · Acknowledgement Form
 - EHS COVID-19 Lab Reorientation Training
 - Medical Test
 - Attestation Form this needs to be filled out and submitted every day you come to campus
- All EHS core trainings completed (check Learning Center in Atlas).
- Remember that the hours in Core Facilities count toward your hours on campus.

MIT.nano Prerequisites

- All trainings prerequisites completed (check MUMMS).
- You must attend this training!
- $\bullet\,$ Sign up for lab access on the MIT.nano Scheduler (more on this at the end).
 - Sign up to request a locker/hanger: reservations for 1-week duration.
 - Reserve your equipment in CORAL: plan your reservations to optimize time in the lab and minimize entries/exits.
- · In your planning, keep in mind that gowning rooms are the bottleneck for all labs.







Accessing the lab:

Lab Hours of Operation			
Building 39 ICL/TRL/EML	Building 24 EBL	Building 12 Fab.nano/Packaging	
Mon-Fri: 9am-5pm	24/7 Access	Mon-Fri: 9am-5pm	
24-hour access enabled June 29 for qualified users		24-hour access enabled June 29 for qualified users	

Staff will be on a reduced schedule during the ramp-up.

- Fab Staff Hours: Mon-Fri, 9am-5pm
- EBL Staff Hours: Mark Mondol is available by phone 8am-11:59pm
- Fab Staff will work alternating weeks to minimize personnel in offices and labs
- Report ALL tool problems in CORAL (this notifies ALL staff including back-ups)
- Staff will provide remote support as much as possible

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Accessing the lab: Staged approach to Training and New Users



Early Ramp-Up

- Guide for Returning to MIT.nano Labs: Offering multiple sessions each week to train existing users on modified protocols.
- Broad topic trainings: Classroom trainings will resume via Zoom.
 - Emergency Preparedness Training for new users
 - Wet Chemical Processing Training for wet bench users and 24-hr users.
- 24/7 User Qualification interviews will resume in July via Zoom.



Mid Ramp-Up

- Training on "Similar Tools": Staff are working to enable "distanced training".
 - Spin coaters and photolithography
 - New MLA-150
 - · AMAT tools (similar interfaces)
 - Metrology equipment (Dektaks, Filmetrics, etc)

Reach out to the tool owners to discuss your "Similar Tool" training needs.



Late Ramp-Up

- Training on "New Tools" (i.e. if you never used an etcher before).
 - We are investigating ways to safely enable training on equipment that requires closeproximity between staff and the users
- · New Users to the Lab
 - This requires a combination of classroom training and handson training, as well as "New Tool" training.
 - New User Orientation will resume via zoom.
 - Quick Start will resume and will be modified from its current format.



These new behaviors and modified lab protocols are precautionary measures taken to reduce risk

Continued good hygiene practices

Face Coverings Physical Distancing

Cleaning and Disinfection

Modified Lab Protocols

Personal responsibility will contribute to the overall well-being of the MIT.nano community













