

Tentative Schedule

Mon,1/11/2027		**Location**
8:30 - 9:00	Tea/Coffee	TBA
9:00 - 9:45	Introduction	TBA
10:00 - 10:45	Principles and Type of Electron Microscope	TBA
11:00 -11:45	Principles and workflow of general EM sample preparation	TBA
12:00 - 1:30	Lunch Break	TBA
1:30 - 2:15	Practical guide on operating TEM-Hands-on	TBA
2:30 - 3:15	Practical guide on operating SEM-Hands-on	TBA
3:30 - 4:15	Image acquisition of example samples	TBA
Tue, 1/12/2026		
8:30 - 9:00	Tea/Coffee	
9:00 - 9:45	Practical guide of setting up an EM lab-Equipment & Reagents	TBA
10:00 - 10:45	Practical workflow for TEM sample preparation	TBA
11:00 - 11:45	Practical guide of TEM sample preparation-Negatives staining	TBA
12:00 - 1:30	Lunch break	TBA
1:30 - 4:30	Negative staining lab practice and imaging	TBA
Wed, 1/13/2026		
8:30 - 9:00	Tea/Coffee	
9:00 - 9:45	Practical workflows of SEM sample preparation-reagents and equipment	TBA
10:00 - 10:45	Practical guide for SEM sample preparation	TBA
11:00 – 12:00	SEM sample preparation and Imaging	TBA
12:00 – 1:30	Lunch	TBA
1:30 – 5:00	Tour of Nanofabrication and Imaging Facility @ George Washington University	TBA
Thur, 1/14/2026	Emerging EM Technologies and Applications	
8:30 - 9:00	Tea/Coffee	
9:00 - 9:45	CryoEM techniques and current application (Sousa, JHU & Guenther, Thermo Fisher)	TBA
10:00 - 10:45	CryoEM techniques and current application (Sousa, JHU & Guenther, Thermo Fisher)	TBA
11:00 - 11:45	Volume EM and Connectomics (Bastians, Zeiss)	TBA
12:00- 1:30	Lunch	TBA
1:30 -3:30	Image analysis, Measurement and particle counts . Participant Presentations: Curriculum Integration and Laboratory Module Design	TBA
3:30 - 4:30	Workshop Reflection, Discussion, and Program Evaluation	TBA

Organizer & Lecturer			
	Ru-ching Hsia	ru-ching.hsia@nih.gov	FNL/NCI/NIH
		Microscopycollaborative@gmail.com	Microscopy Collaborative
		BioEMTalks@gmail.com	BioEMTalks
Guest Lecturer/Demonstrator (tentative)			
	Patrick Guenther	patrick.guenther@thermofisher.com	Thermo Fisher Scientific
	Duncan Sousa	dsousa1@jhmi.edu	Johns Hopkins University
	Philipp Bastians	philipp.bastians@zeiss.com	Zeiss
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On-Site Support			
	Anita Abedi		Bowie State University

Workshop Participants

	Name	Work Email	Job Title	Institution
1				
2				
3				
4				
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Registration form:
https://docs.google.com/forms/d/e/1FAIpQLSf5dIy8LJDvuClew7Zq7T8_EjxnqsB2AJvGgEoj2OH7Deb_2g/viewform?usp=header

Consent Form

Location Information:



Bowie State University is a historically Black Urban College conveniently located just East of Washington ,D.C. and south of Baltimore. BSU is accessible through Maryland Communter Rail (**MARC**) Penn Line that runs between Baltimore Penn Station and Washington Union Station. Bowie State is also a stop on three Metrobus lines operated by the Washington Metropolitan Area Transit Authority: B21, B22, and B27. These bus lines connect the University with the New Carrollton station of the Washington, D.C., Metro subway system. There are many hotel options along the Marc Penn Line.

Center for Natural Sciences, Mathematics and Nursing (CNSMN) is a state of art glass front research building designed to encourage interdisciplinary collaboration with minimized carbon footprint.

Parking. There will be ample campus parking during the event.







