

Biasing Nanomanipulator TEM sample holder training class agenda

Training classes are available for new users or those who want to refresh their skills. Hummingbird Scientific's application scientists are ready to assist you to support your research. Meet our team and visit our design studio and manufacturing facility. Two-day classes include training on:

- How to use the biasing nanomanipulator TEM sample holder – know the different parts of the sample holder required to perform in-situ contact biasing and nanomanipulation TEM experiments, including electrical connections for biasing and probe positioning control
- Loading and unloading of STM probes and samples
- Probe controller & software – learn coarse and fine probe positioning and best practices for sample biasing.
- Best practices for experimentation including matching probe and sample Z-position, contact, and drift control

DAY 1

8:00 am – 9:00 am

Welcome & introduction to in-situ biasing nanomanipulator TEM holder

9:00 am – 10:00 am

Hands-on instruction and practice in loading samples and STM probes

10:00 am – 11:30

Connecting holder to controller for electrical biasing and probe positioning

11:30 am – Noon

Prepare a sample and load into the TEM to pump down during lunch

Noon – 1:00 pm

Lunch

1:00 pm – 2:00 pm

Prepare a sample and load into the TEM, setup controller connections, explain drift lock

2:00 pm – 4:00 pm

Software operation – probe and sample biasing and fine and coarse probe positioning

4:00 pm – 6:00 pm

Nanomanipulator sample holder in TEM with demo experiment – discussion of imaging best-practices

Dinner

DAY 2

8:00 am – 9:00 am

Facility tour

9:00 am – 11:00

Further hands-on practice with sample loading and experimental setup

11:00 am – Noon

Trainee prepares sample for experiment in the TEM

Noon – 1:00 pm

Lunch

1:00 pm – 4:00 pm

Hands-on experiments and discussion of best-practice imaging

4:00 pm – 5:00 pm

Wrap up and walkthrough to Hummingbird's webstore
