

Setup an automated data collection at Glacios

Beam microprobe and nanoprobe calibrations

- Introduce the Cross Grating Grid in the column.
- Go to x34 Imaging status.
- Select 2 positions: a carbon square and an empty square.
- Introduce the Condenser 2 of 30 um
- Go to x280 Imaging status.
- In DigitalMicrograph click View and place the mouse arrow on a feature.
- Use Alpha Toggle 20° in Stage² window (TEM) to rock the grid.
- Correct with **Z axis knobs** on the console.
- Repeat a second time.
- Go to x45k Imaging status
- In Low Dose Control window (SEM) click on Go to: Record.
- Push the **Eucentric Focus** knob on the console.
- Inset the screen (FC).
- Push the **Wobbler** knob on the console.
- Adjust the Z height on the screen with the **Z axis knobs** on the console.

Microprobe

Focus the beam and center it (with the trackball).

- Go to microprobe (TEM)
- Push the **Eucentric Focus** knob on the console.
- In the **Direct Alignments** window:
 1. Adjust the [Beam tilt pp X](#)
 - Click on **Beam tilt pp X**
 - Adjust with **Multifunction X/Y** knobs
 - Click **Done** at the bottom of the window.
 2. Adjust the [Beam tilt pp Y](#)
 - Click on **Beam tilt pp Y**.
 - Adjust with **Multifunction X/Y** knobs.
 - Click **Done** at the bottom of the window.
 3. Adjust the [Beam shift](#)
 - Click on **Beam shift**.
 - Adjust with **Multifunction X/Y** knobs.
 - Click **Done** at the bottom of the window.
 4. Adjust the [Rotation center](#)
 - Click on **Rotation center**.

- Adjust with **Multifunction X/Y** knobs.
- Click **Done** at the bottom of the window.

Nanoprobe

Focus the beam and center it (with the trackball).

- Go to nanoprobe (TEM)
- Push the **Eucentric Focus** knob on the console.
- Check the Condenser 2 centering and adjust if necessary.
- In the **Direct Alignments** window:
 1. Adjust the [Beam tilt pp X](#)
 - Click on **Beam tilt pp X**
 - Adjust with **Multifunction X/Y** knobs
 - Click **Done** at the bottom of the window
 2. Adjust the [Beam tilt pp Y](#)
 - Click on **Beam tilt pp Y**
 - Adjust with **Multifunction X/Y** knobs.
 - Click **Done** at the bottom of the window
 3. Adjust the [Beam shift](#)
 - Click on **Beam shift**
 - Adjust with **Multifunction X/Y** knobs
 - Click **Done** at the bottom of the window
 4. Adjust the [Rotation center](#)
 - Click on **Rotation center**
 - Adjust with **Multifunction X/Y** knobs
 - Click **Done** at the bottom of the window

+++After all calibrations save the settings|

- Menu: *Settings* > *Save*
- In **Low Dose Control** window check **Continuous update**
- Click on Update it
- Uncheck **Continuous update**

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