UNIVERSITY of NEBRASKA LINCOLN

-EM Core Facility

Glacios 200kV CryoTEM Guidelines CryoEM Core Facility

- To use our Glacios CryoTEM, users must make a reservation through our **booking system**.
- To reserve a **Training Session**, **contact** the Core Facility **Director** beforehand.
- Reservations will run for a **maximum** of one week of microscope Time.
- The Microscope will be **cryo-cycled** every **Sunday at noon**. It is the user's responsibility to save their grids. This must be done at least an hour before the CryoCycle begins.
- The Glacios CryoTEM must be reserved for a **four-hour minimum** per session. The samples will be unloaded 15 minutes before the end of the reservation. Only **four grids** will be loaded for **4-hour reservations** and up to 11 grids for 8-hour reservations.
- **Only users with prescreened** suitable grids can reserve the Glacios for **overnight** or **daily** data collection.
- Users are required to **clip** the grids **before** the microscope reservation.
- **Sample Loading** will only be done by Superusers. Otherwise, the samples will be loaded by the facility staff.
- **Keep** the tweezers, screwdrivers, Nanocap, and loading station in designated spots. Keep them **Dry** at all times.
- **Check-in** in the instrument before using it. You will find a QR code in the Glacios's proximity and the control room. Make sure you are checking in using only your **reservation number**.
- The sample will be **Loaded** in the Glacios only at the **starting time** of your reservation.
- **Fifteen minutes before the end** of your reservation, **remove** the grids from your microscope. Otherwise, the grids will be **disposed** of. If assistance is needed to store the grids, notify the facility staff at the beginning of your reservation.

- **Check-out** after the end of your Glacios session using the same QR code and your **reservation Number**.

- **Dry** all the tools and store them in the appropriate area at the end of the reservation.

- **Dispose** the liquid nitrogen from the Dewar and set them to dry facing down.

- **Report** to the staff if you **stored samples** in the Facility Dewar. Report the position and number of grid boxes. A monthly charge will be applied per falcon tube/puck stored. **Unreported** samples will be **disposed of**.

- Your **session data** has to be saved in the microscope storage **drive Z** as Glacios_" **reservation number**" _" **identification information**" _" **PI last name**" to move the data into the appropriate file transfer folders

- **Data** will be kept at the Facility for up to two weeks; after data collection, users will transfer data to a Globus shared folder, where it is the user's responsibility to move it to HCC or another storage location via Globus.

- Failure to comply with these guidelines may result in your **Glacios privileges being revoked**.

- For any Glacios-related questions or issues, contact the facility staff.