

## Duke Krios Cryo-TEM Tomography Project Request Submission Form

Please email completed form to: [krios@duke.edu](mailto:krios@duke.edu)

User Name(s): \_\_\_\_\_ Institution: \_\_\_\_\_

PI Name: \_\_\_\_\_ Date: \_\_\_\_\_

Project Title: \_\_\_\_\_

Estimated total number of samples to image for this project: \_\_\_\_\_

Estimated number of tilt-series to acquire per sample: \_\_\_\_\_

Number of anticipated Krios measurement sessions: \_\_\_\_\_

**Note:** Only non-hazardous and non-infectious samples will be imaged on the Krios

- A) Please provide the following information about the sample(s) and goals for the Krios imaging
- Sample Description: \_\_\_\_\_
  - Target Resolution: \_\_\_\_\_
  - Tilt-scheme (e.g., continuous, bidirectional, dose-symmetric): \_\_\_\_\_
  - Tilt-range (e.g., +/-60 degrees): \_\_\_\_\_
  - Tilt-spacing (e.g., 3 degrees): \_\_\_\_\_

Provide any additional information that would be helpful in the text box below:

Insert text here

B) Please provide the following for the project (may be multiple samples, multiple sessions):

- 1) A low magnification cryo EM montage (atlas) of the specimen/s to be imaged or of a specimen obtained using similar preparation conditions shown previously to behave analogously in cryo conditions.
- 2) Two low magnification cryo EM images showing the ice distribution on an entire grid square from the specimen in #1, above.
- 3) Two intermediate magnification images (~1 nm pixel size) of the areas deemed adequate for data collection from the specimen indicated in #1, above.
- 4) One or more representative high magnification images of a field of view on the specimen indicated in #1, above, at under-focused values between 2-5um.
- 5) Provide a pair of high magnification images of a typical area of interest taken at +25 and -25 degree tilt.
- 6) Highlight the features of interest to be imaged in the images provided in #4.

Notes:

- 1) Providing evidence for the approximate ice thickness of the sample to be imaged is desirable. For example, this can be done by showing a cross section through a preliminary tomogram reconstruction or similar methods.

If any of the above conditions are difficult to obtain, please email [krios@duke.edu](mailto:krios@duke.edu) to discuss.