In order to provide best service to your research need, we need to understand more about your samples and research project. Please answer the following questions. Contact MCF staff for any questions.

1. Who is your faculty mentor? What is the time duration of your project? Is this project part of your faculty mentor’s research?

2. Describe your project in 100 words including what functions of the SEM you intend to use.

3. Following questions are about your samples

   Dimensions (L,W,H) __________________  Chemical composition_____________________
   Conductor or insulator __________________  Magnetic or not _______________________
   Surface smooth or rough_______________  Hard or soft _________________________
   Bulk or powder _______________________  Solid or gel _________________________
   Dry or wet ___________________________

4. What is the minimal scale you want to resolve? ______________________

5. Has your sample been handled by bare hands? Can it be cleaned with acetone or isopropanol and sonication? Does it have any adhesive or marker inks anywhere?

6. Is your sample vacuum compatible? Will the components fly, sublime or be evaporated in vacuum? Will the sample be deformed or decomposed in vacuum?

7. Is your sample homogeneous? Do you need to know sample’s chemical composition (EDS)?

User signature:____________________________________         Date: ____________________________
Advisor signature: __________________________________       Date: ____________________________