Lee Teng Summer Intern Mentor Volunteer Form

Name of mentor: Lahsen Assoufid

Name of administrative assistant for mentor: Becky Forsythe

Argonne division: XSD

Project description:

Development of a calibration tool for the long trace profiler. The optics group is building a high resolution angle calibration system for the new APS long trace profiler. The system is currently being designed in collaboration with Deming Shu. Some of the key components have already been procured. We expect to assemble the system beginning of Calendar Year 2014, develop the control software and perform preliminary tests by April 2014. The role of the candidate will consist of implementing and using the calibration tool to calibrate the APS long trace profiler, analyze the data, determine the performance of the system, and report the results. If necessary, the candidate is also asked to determine possible ways to further improve it. This work requires basic knowledge of optics, good experimental and programming skills, and knowledge of math and physics.

List any skills a student might have that are of particular interest:

The work requires knowledge of basic optics, advanced algebra and geometry, and programing in FORTRAN, IDL or Matlab.

List any special safety training needs you would have for your Lee Teng intern:

None