Fluorescence image guided surgical system

**Name/Contact of Project:** Rongguang Liang, Ph.D.

**Project Description:** My group is developing fluorescence image guided surgical systems to aid surgeons to detect tumor and remove tumor tissue more accurately. We develop optical system, fabricate optical components, assemble systems, calibrate systems, and evaluate systems with clinicians. Currently, we are developing a handheld fluorescence image and projection guided device, the undergraduate student can work on this project. She/He will learn how to develop the system concepts and design workable/manufacturable system, She/He will also learn how to put system together and calibration systems.

**Required Skills:** Basic knowledge of optics and some lab experience.

**Ideal Skills:** Strong hands-on optical lab sills, image processing, opto-mechanical design