



Cornell University
College of Engineering
Kirby Research Group

Undergraduate & MEng Research Opportunities

Undergraduate and MEng research opportunities are available in the Micro/Nanofluidics Laboratory (<http://www.kirbyresearch.com>) for motivated students with interests in research. From a scientific standpoint, these projects involve nanoscale characterization of interfacial phenomena (<http://www.kirbyresearch.com/zeta>). From an applications standpoint, this work, in collaboration with local industry, relates to custom machining of optical components for a variety of uses, including custom lenses for aerospace systems.

These projects could be for undergraduate research or MEng projects. Given mutual interest, these projects could extend through summer and/or fall terms.



Custom lenses for surgical applications (courtesy Optimax Systems, Inc.)



The NASA Mars Rover (image courtesy NASA)—one example of a system that uses custom optical components fabricated using processes akin to those under study.

Background information about the group can be found at (<http://www.kirbyresearch.com>). Useful (but not required) skills include fluid mechanics and chemistry.

To inquire, please send resume to Professor Kirby (bk88@cornell.edu).