The Research Experience for Undergraduates program at the Cornell Center for Materials Research

June 5 – August 11, 2017

Support for the Cornell Center for Materials Research is provided by the National Science Foundation as part of the Materials Research Science and Engineering Center program and the REU-Site program.

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Rolling Admission Period

Applications Begin:
December 2016

Deadline for Applications:
March 13, 2017

The CCMR REU Program uses a rolling admission process.
The Research
At Cornell, materials research spans the gamut from theoretical physics to synthetic chemistry, to the design of engineering materials and the fabrication of microelectronic devices. Research projects for all interests are offered.
Examples of projects include:
• Bone Mechanobiology
• Controlling the Location of Nanoparticles in Polymer Materials
• Computational Design of Efficient Solar Cells
• Design and Synthesis of a Facility for New Artificial Quantum Materials
• Development of Photocontrolled Polymerizations
• Electrochemical Characterization of Alkaline Anion Exchange Membrane Materials for Fuel Cells
• Magnetic Imaging Using Superconducting Quantum Interference Devices
• The Role of the Extra Cellular Matrix in Regulating the Perivascular Niche in Gliobastoma Multiforme
• Ultra-Fast Magneto-Thermal Microscopy to Probe Electron Spin Dynamics in Materials with Sub-Micron Resolution Primary tabs

The Program
The Cornell Center for Materials Research is offering a special summer program with a stipend and additional funds for travel.
During the 10-week period from June 5 to August 11, students will work with Cornell faculty on interdisciplinary materials research projects involving chemistry, physics, materials science, and engineering.
Students will also participate in an organized program of lectures, laboratory visits, and recreational activities.
Students will be housed in an on-campus university-owned residence.
• Open to Fall 2017 undergraduates who are U.S. citizens or permanent residents.
• Be 18 years or older.
• Selection is based on academic standing and faculty recommendations.
• Minority and female candidates are strongly encouraged to apply.
• All physical science and engineering majors are welcome to apply.

Location
Cornell University is located in the heart of New York’s Finger Lakes region. Situated at the tip of Cayuga Lake, Ithaca offers every type of outdoor activity imaginable. The campus is located between two of Ithaca’s famous gorges. Students often take a break from research to visit our many lakes and waterfalls. We organize weekend trips to Niagara Falls and New York City.

http://www.ccmr.cornell.edu/reu