

Research Experiences for Undergraduates in Sustainable Materials Summer 2022

The program provides undergraduate students with the opportunity of engage in research in physics, chemistry, and engineering related to the discovery and study of materials that can be used in future sustainable technologies such as low-power electronic devices, renewable energy sources, and biomimetic devices.

Program Details

- Duration: 9 weeks (06/13/2022-08/12/2022)
- Stipend: \$600/week
- Housing, meals, and travel stipends (if oncampus housing is allowed by COVID policies)
- Weekly group meetings
- Academic, technical, and professional development sessions
- Social events and field trips to National Labs
- Intermediate and final research symposia

Eligibility

To be eligible to participate, you must:

- Be a rising sophomore, junior, or senior in an institution of higher education in the United States (i.e., have completed your first year by the end of the 2022-2022 school year).
- Have a minimum 2.8 GPA in STEM undergraduate courses.
- Be a U.S. citizen or permanent resident.

Sample Research Projects

- Biomimetic Soft Photosynthesis
- Bioelectronic Devices
- Antiferromagnetic Spintronics
- Magnetoelectric and Quantum Materials
- Nano-magnetooptics
- Phononic Metamaterials
- Organometal Halide Perovskite Quantum Dots
- Materials for Photovoltaic Applications
- Synthesis and Characterization of Metal Organic Frameworks
- Two-dimensional Heterostructures
- X-ray Spectroscopy of Complex Materials
- Materials in High Pressure Conditions

Applications will be evaluated on a rolling basis starting on February 25, 2022.

For more information and to apply online, go to http://reu-materials-ucsc.weebly.com/

