

Undergraduate research is a cornerstone of our mission at Rutgers-Camden. Our goal is to provide as much support as possible for you to have a successful research experience.

Need funding for a research project or conference travel experience?



We encourage you to **visit go.rutgers.edu/ug-grants** to see what funding opportunities are available. Currently, you can receive up to \$500.00 to offset research expenses and conference travel expenses.

Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit **go.rutgers**. **edu/curca-hub** to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, the Department of Physics is looking for undergraduate

researchers for the following project:

» "Computational materials for energy and sustainability," led by Dr. Hong Fang (hong.fang@rutgers.edu)

Unsure if you are research-ready?

To be research-ready, it is required that physics majors take the following courses:

- » 50:750:491 Research in Physics I
- » 50:750:492 Research in Physics II

Who are the faculty? What do they research? What are their interests?

- » Dr. Grace Brannigan (grace.brannigan@rutgers.edu): Computational biophysics, particularly dynamics of ion channels and other signaling proteins, as well as free energies of ligand-protein interactions
- » Dr. Hong Fang (hf267@camden.rutgers.edu): Computational design, development, and understanding of advanced materials and interfaces for renewable energy and sustainability
- » Dr. Julie Griepenburg (jg1151@scarletmail.rutgers.edu): Nanoparticle functionalization and light-activation
- » Dr. Hunter King (h.king@rutgers.edu): Mechanics of structures engineered by plants and animals; non-equilibrium and soft matter physics; open-source instrumentation for table-top experiment and field measurement
- » Dr. Jiantao Kong (jiantao.kong@rutgers.edu): Computational condensed matter physics, particularly plasmonics and electron-phonon interactions
- » Dr. Sean O'Malley (omallese@camden.rutgers.edu): Laser-material interactions; Pulsed Laser Ablation in Liquids (PLAL); laser-based nanoparticle synthesis techniques; nano-scale multiferroics
- » Mr. Cory Trout (cory.trout@rutgers.edu): Nanomaterial synthesis and characterization

physics.camden.rutgers.edu

