

RESEARCH PATHWAYS

CHEMISTRY

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](http://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.

Unsure if you are research-ready?

Contact Dr. Alex Roche, Undergraduate Program Coordinator, (aadroche@camden.rutgers.edu) with questions about research, degree requirements, registration deadlines, etc.

chemistry.camden.rutgers.edu

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

- » Dr. Georgia Arbuckle-Keil (arbuckle@camden.rutgers.edu): Polymer Characterization; Microplastics; Art Conservation; Vibrational (Infra-red and Raman) micro-spectroscopy; Thermal Analysis
- » Ms. Bailey Blessing (bailey.blessing@rutgers.edu): Chemistry Education; Organic Undergraduate Laboratory; Chemistry Laboratory Management
- » Dr. Michelle Carlin (michelle.g.carlin@rutgers.edu): Forensic Toxicology; Paint Analysis; Forensic Drug Chemistry; Mass Spectrometry; Spectroscopy; Microscopy
- » Dr. Jinglin Fu (jinglin.fu@rutgers.edu): Biomimetic Nanosystems; Bionanotechnology; Nucleic Acids Technology; Nanomedicine Delivery; Biosensing; Enzymology; HPLC/MALDI-TOF/AFM
- » Dr. Catherine Grgicak (c.grgicak@rutgers.edu): Bioanalytical Chemistry; Forensic DNA; Single-Cell Analysis; NGS; Capillary Electrophoresis; qPCR; Digital PCR
- » Dr. George Kumi (george.kumi@rutgers.edu): Chemistry Education; Microfluids; Biomineralization; Microfabrication
- » Dr. Guillaume Lamoureux (guillaume.lamoureux@rutgers.edu): Molecular Modeling and Recognition; Enzyme Catalysis; Membrane Transport Computational Biophysics; Machine Learning
- » Dr. Santanu Malakar (sm1792@rutgers.edu): Catalysis; Organometallic Chemistry; Small Molecule Activation; Catalyst Design; Computational Chemistry; Mechanistic Studies; Kinetics; Electrochemistry; Electrocatalysis
- » Dr. Alex Roche (aadroche@camden.rutgers.edu): Design, Synthesis, and Characterization of Novel Fluorocarbons, NMR, HPLC/MS, GC/MS
- » Dr. David Salas-de la Cruz (david.salas@rutgers.edu): Biomaterials; Ionic Liquids; Morphology; X-Ray Scattering; Biobatteries; Scaffolds; Filtration Membranes
- » Dr. KJ Winchell (kj.winchell@rutgers.edu): Chemistry Education; General, Organic, and Biochemistry; Polymers
- » Dr. Youwen (Warren) Zhang (youwen.zhang@rutgers.edu): Molecular Diagnostics; Chiral Nanomaterials; Drug Delivery