In September 1997, the chemistry department inaugurated its graduate program leading to the master of science degree. The department has assembled a very research-active group of faculty whose work is known internationally. The smaller size encourages better contact between faculty and students. The department conducts research in all major areas of chemistry: analytical, inorganic, organic, physical, theoretical, and biochemistry.

Graduates will be ready for professions in the chemical and pharmaceutical industries, or can bring a profound understanding of chemistry to the teaching of Science in secondary school. Each track also provides excellent preparation for continuation in a Ph.D. program in chemistry, biochemistry, pharmacology, food science, materials science, or related areas.

**ADMISSIONS REQUIREMENTS**
- Online application (gradstudy.rutgers.edu/apply/overview)
- A transcript showing the completion of an undergraduate degree in chemistry or a related science
- Three letters of reference
- A statement of personal, professional, and academic goals
- GRE scores (general and chemistry subject) required if applying for assistantship, otherwise recommended

**FUNDING OPPORTUNITIES**
The Graduate School offers competitive funding opportunities to top applicants in the form of fellowships, scholarships, and tuition remission awards. These awards are determined by the graduate department’s admissions committee and do not require an additional application. The chemistry program awards several teaching assistant positions each year, and awards are determined by the department’s admissions committee. No additional application is necessary to be considered for these positions.

**DEGREE REQUIREMENTS**
30 total credits, plus must pass a comprehensive examination

**Plan A: Thesis**
Emphasizes participation in the research efforts of one or more of the faculty based on student interest, terminating in a research thesis, seminar and oral exam

**Plan A: Non-Thesis**
Requires completion of a major paper and seminar/oral exam on a topic of current research interest with the remaining credits being obtained via coursework

**CONCENTRATIONS**
- Analytical
- Inorganic
- Organic
- Physical
- Theoretical
- Biochemistry
- Cheminformatics
FACULTY AND RESEARCH AREA

- Georgia A. Arbuckle-Keil (Ph.D., University of Pennsylvania) professor; graduate director | polymer synthesis and characterization
- Luke A. Burke (D.Sc., University of Louvain, Belgium) professor; department chair | organic reaction mechanisms, molecular modeling
- Jinglin Fu (Ph.D., Arizona State University) assistant professor | DNA nanostructures, enzymology
- George A. Kumi (Ph.D., University of Southern California) assistant professor | analytical and physical chemistry, microfluidics, microfabrication
- Alex J. Roche (Ph.D., University of Durham) associate professor | organic and organofluorine chemistry
- David Salas-de la Cruz (Ph.D., University of Pennsylvania) assistant professor | morphology, x-ray scattering, polymerized ionic liquids, biomass, environmental science
- Alexander Samokhvalov (Ph.D., Weizmann Institute of Science, Israel) assistant professor | experimental physical chemistry, adsorption and photocatalysis
- Hao Zhu (Ph.D., Case Western Reserve University) assistant professor | cheminformatics, computational toxicology, computer-aided drug discovery

STUDENT ACCOMPLISHMENTS

- Recent awards received by students include the Coblentz Society Student Award and the American Chemical Society Conference Polymer Student Research Award.
- Recent graduates have been admitted to Ph.D. programs at Drexel University, Temple University, University of Pennsylvania, Princeton University, University of Delaware, and University of California, Los Angeles.

Website: camchem.rutgers.edu/graduate

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