The Graduate Program in Chemistry at Brown reflects the profound importance and diversity of the disciple by offering excellent research opportunities in areas including organic and inorganic chemistry, chemical biology, analytical chemistry, nanochemistry, and theoretical and experimental physical chemistry. In addition, students have the opportunity to participate in interdisciplinary research in molecular biology, chemical engineering, or in the newly founded Institute for Molecular and Nanoscale Innovation.

With a program of ~100 graduate students our student: faculty ratio is approximately 3:1 with most research groups having not more than 6 graduate students.
WHY CHOOSE THE BROWN UNIVERSITY GRADUATE PROGRAM IN CHEMISTRY?

- Competitive stipend
- Tuition costs paid
- Health insurance benefits
- Average time to completion of PhD is 5 years
- Dual master’s/PhD programs
- Reduced teaching responsibilities in first year
- Annual conference travel funding
- For more information and application visit: http://brown.edu/academics/chemistry

FACULTY RESEARCH INTERESTS

**AMIT BASU**
*Organic, Biological Chemistry*
Glycobiology, polymers, green chemistry, synthetic organic chemistry, interfacial recognition, nanomaterials

**WESLEY BERNSKOETTER**
*Organometallic, Inorganic Chemistry*
Catalyst development, coordination chemistry relevant to energy concerns, metal-promoted synthetic organic chemistry, small molecule activation

**SARAH DELANEY**
*Biological Chemistry*
Nucleic acids chemistry and biology, DNA repair, enzyme kinetics, triplet repeat expansion

**GERALD J. DIEBOLD**
*Physical Chemistry*
Photoacoustic effect, thermal diffusion, medical imaging, vibration potential imaging, x-ray phase contrast, radiation force spectrometry

**EUNSU KIM**
*Inorganic Chemistry*
Bioinorganic chemistry, coordination chemistry, redox signaling, nitric oxide signaling, energy, carbon dioxide conversion

**KRISTIE J. KOSKI**
*Nano Chemistry, Materials Chemistry*
Two-dimensional nanocrystals, energy & technology, thermodynamics in reduced dimension, single particle optical spectroscopy

**CHRISTOPH ROSE-PETRUCK**
*Physical Chemistry*
Ultrafast x-ray science, ultrafast spectroscopy of chemical reactions, medical x-ray and ultrasound imaging, x-ray microscopy

**JASON K. SELLO**
*Organic, Biological Chemistry*
Chemical biology, synthetic organic chemistry, microbiology, antibiotic mechanism and resistance, drug discovery, biofuels, analytical chemistry

**CHRISTOPHER T. SETO**
*Organic, Biological Chemistry*
Drug discovery, phosphatases, activity based probes, organic synthesis, asymmetric catalysis

**RICHARD M. STRATT**
*Physical Chemistry*
Theoretical chemistry, molecular dynamics in liquids, ultrafast spectroscopy

**SHOUHENG SUN**
*Inorganic, Nano Chemistry*
Nanomaterials synthesis, self-assembly, nanomedicine, catalysis and energy storage

**LAJ-SHENG WANG**
*Physical Chemistry, Nano Chemistry*
Nanoclusters, chemical structures and bonding, catalysis, cluster-assembled nanomaterials, multiply charged anions, electrospray ionization and solution chemistry in the gas phase, photodetachment, photoelectron spectroscopy and imaging

**PETER M. WEBER**
*Physical Chemistry*
Chemical reaction dynamics, ultrafast laser spectroscopy, molecular beam spectroscopy, multi-photon processes, photoionization, photoelectron spectroscopy

**PAUL G. WILLIARD**
*Organic Chemistry*
X-ray diffraction analysis, organolithium compounds, NMR, organometallics, organic synthesis

**MATTHEW B. ZIMMT**
*Organic, Inorganic, Nano Chemistry*
Nanoscience, self-assembly, scanning microscopies, organic synthesis