

## CAREER SERVICES & PROFESSIONAL DEVELOPMENT



Lehigh's Career Services offers guidance and resources to help students achieve their career and professional goals. We offer assistance in:

- Identifying career paths
- Designing a plan to be competitive for career opportunities
- Crafting your professional image

The College of Arts & Sciences offers a range of professional development opportunities, including workshops on careers in academic and non-academic settings, time management, and writing.



The Graduate Life Office and Center for Innovation in Teaching and Learning provide a Teacher Development Program for graduate students. Grad Life also runs events throughout the year, including dissertation/thesis boot camps, social hours, and etiquette workshops.

## TUITION & FINANCIAL AID



A variety of financial aid packages are available, including fellowships, scholarships, and assistantships. Many of our doctoral students receive teaching or research assistantships, which include a stipend and full tuition. Minimum TA and RA stipends for 2018-19 were \$21,240, and many programs also provide additional summer salary opportunities. Competitive applicants will be also be considered for University and College fellowships. Please inquire about financial aid opportunities with your department contact.



**Notice of Nondiscriminatory Policy as to Students:** Lehigh University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs and activities generally accorded or made available to students at the school. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other school administered programs.

## SUCCESS THROUGH KNOWLEDGE: DOMINIC PACKER



*"It is the unknown that excites the ardor of scholars, who, in the known alone, would shrivel up with boredom." – Wallace Stevens*

Making the transition from student to scholar involves a shift from learning about questions with established answers to tackling problems that are as yet unsolved. At the leading-edge, these may be problems that no one else has even recognized!

The Ph.D. programs in Arts & Sciences at Lehigh University are intensely research-focused. Our programs are designed to provide students with the knowledge and skills they need to take on new problems and unanswered questions – to become scholars. We are looking for people who are comfortable with complexity, who love ideas, data, and debate, and who seek to expand – in a fundamental way – the span of human knowledge. If this sounds like you, I hope that you will consider joining our intellectual community.

Our doctoral programs offer financial support in a variety of forms including teaching and research assistantships, fellowships, and scholarships. If you have questions about financial aid, the application process or anything else, please do not hesitate to contact our office or any of the program directors listed throughout the brochure.

Dominic Packer  
Associate Dean for Research & Graduate Programs

## HOUSING OPTIONS



Incoming graduate students have multiple housing options. On campus, we have three locations available: Saucon Village, Packer House and 230 West Packer. All three provide positive, inclusive living environments, which you can explore on the housing website: <http://www4.lehigh.edu/housing/graduate>. The cost for on-campus housing in 2018-2019 range from \$560-\$900/month, depending on unit size (excluding utilities). Lehigh also provides opportunities for students to connect to arrange shared off-campus housing.



## WHERE IS LEHIGH ?



Lehigh's beautiful hillside campus in Bethlehem, PA, is less than two hours from New York City, Philadelphia, and the Pocono Mountains, and the New Jersey shore. Situated on South Mountain, Lehigh's campus is home to unique mix of modern state-of-the-art facilities and historic, ivy covered stone buildings - some 148 in all - containing more than 3.5 million - plus square feet of classroom, laboratory, office, and living space.



Bethlehem (settled in 1741) is located in the Lehigh Valley, Pennsylvania's third-largest metropolitan area, and is a major tourist attraction area, and is a major tourist attraction featuring restored colonial buildings, shops, and excellent restaurants.

[cas.lehigh.edu/grad](http://cas.lehigh.edu/grad) • 610-758-4280 • [incasgrd@lehigh.edu](mailto:incasgrd@lehigh.edu)

## DOCTORAL PROGRAMS



 **LEHIGH**  
UNIVERSITY | COLLEGE OF ARTS AND SCIENCES

## BIOLOGICAL SCIENCES – Ph.D.

Research-oriented programs leading to a Ph.D. degree in Biology are offered in four specific concentrations: Biochemistry, Cell and Molecular Biology, Evolution and Behavior, and Neuroscience.

### Program Highlights

- Our faculty are highly collaborative and students are encouraged to rotate through multiple labs.
- Our graduate students regularly present at national and international conferences, and are authors on peer-reviewed publications.
- Our faculty are rising and established leaders in the field, with research labs funded by national agencies (NSF, NIH) and private foundations. Ph.D. candidates are provided with undergraduate teaching and mentoring opportunities.
- A graduate student seminar series is presented weekly during the academic year. Students who present their research receive valuable feedback on presentation skills and research direction.

Recent graduates have secured research positions at prestigious academic institutions including Yale, Cornell, the University of Pennsylvania, and the University of North Carolina. Others are employed at pharmaceutical and biotechnology companies such as GlaxoSmithKline, Merck, Johnson and Johnson, and Aventis.

### Contact:

**Dr. Amber Rice, Graduate Program Director • 610-758-5569 • inbios@lehigh.edu • www.lehigh.edu/~inbios**



## CHEMISTRY – Ph.D.

Research areas for our Ph.D. program include analytical, organic, inorganic, physical chemistry, and biochemistry.

The Department has currently 14 research-active faculty members with specialization areas in Biointerfacial chemistry, Chemical force microscopy, Drug delivery, Electrochemistry, Gas separations, High-pressure chemistry, Lanthanide chemistry, Lipids, Membranes, and Langmuir-Blodgett films, Membrane proteins, Multi-drug resistance, Nanoporous materials, Organometallic chemistry, Organofluorochemistry, Polymer Chemistry, Solid State Chemistry, Surface chemistry of metals and semiconductors, and Vibrational spectroscopy of nanostructured polymers.

### Program Highlights

- Graduate students work closely and are mentored by their research advisor.
- Students have access to state-of-the-art instrumentation and perform federally funded, cutting-edge research.
- Our students publish in top-notch scientific journals and present their work at national and international conferences.
- Graduate students develop teaching skills and are highly competitive in the job market.

### Contact:

**Professor Dr. Kai Landskron • 610-758-5788 • kai205@lehigh.edu • www.lehigh.edu/chemistry**



## EARTH AND ENVIRONMENTAL SCIENCES – Ph.D.

The department offers M.S. and Ph.D. degrees in Earth and Environmental Sciences. The M.S. degree is thesis-based. Faculty interests and programs center on the Earth sciences, environmental science, and ecology. Research opportunities include both laboratory and field-oriented studies.

### Program Highlights

- Strong, research-active faculty in Earth sciences, environmental science and ecology.
- Professional development activities are integral to the Ph.D. program.
- Graduate Students receive departmental funding for professional travel and field work.
- Employment opportunities in the Earth science consulting industry, state and federal geological surveys, and academia.

### Contact:

**Professor Robert K. Booth • 610-758-3660 • rkb205@lehigh.edu • www.ees.lehigh.edu**



## ENGLISH – Ph.D.

The department offers M.A. and Ph.D. degrees, with an emphasis on Literature and Social Justice. Students teach in the first-year writing program, and receive training in research and pedagogy. Recent Ph.D. graduates have pursued a range of humanities careers, including tenure-track positions at institutions such as the University of Dayton and Moravian College; careers at non-profits such as the Harriet Beecher Stowe Center; and positions that bridge academic and student affairs at institutions such as the University of Nevada, Las Vegas.

### Program Highlights

- Our full-time students are fully funded, with generous stipends and tuition scholarships.
- Our doctoral degree is small and flexible, and our students benefit from individual mentoring and personalized attention at every stage of their career.
- Our students present at national and international conferences, publish in both academic and popular venues, and have received competitive research funding.

### Contact:

**Professor Amardeep Singh • 610-758-4385 • amsp@lehigh.edu • http://english.cas2.lehigh.edu/**



## HISTORY – Ph.D.

Prospective Ph.D. students are encouraged to identify specific fields of interest and faculty members with whom they would like to work. Training ranges across the fields of expertise of all department faculty including 19th and 20th century US; Latin American, Caribbean, African and Atlantic African-Diaspora; British, French and Spanish Atlantic World Empires, and African-American history.

Graduate students can also pursue thematic approaches, including: *Digital Humanities* ♦ *History of Social Movements and Political Culture* ♦ *History of Technology* ♦ *Native American History* ♦ *European Intellectual History* ♦ *Women and Gender History*.

### Program Highlights

- Graduate classes are small and students have direct access to faculty mentors.
- The History graduate program offers training in preparation for a career in research and teaching as well as non-academic pursuits.
- All of our students develop skills that are highly valued by employers. These skills include: critical thinking, research and analysis, oral and written communication, and problem solving skills.
- Lehigh's history alumni work in a wide variety of professions, such as education, law, museums, and tech firms.

### Contact:

**Professor John Savage • 610-758-3363 • inhisgrd@lehigh.edu • http://history.cas2.lehigh.edu**



## MATHEMATICS – Ph.D.

The Department of Mathematics offers a program of study leading to the Ph.D. degrees in mathematics and in applied mathematics. Most Ph.D. students also earn an M.S. degree in mathematics, applied mathematics, or statistics as part of their program.

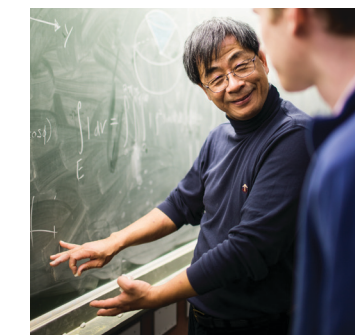
Faculty research areas include algebra, algebraic topology, analysis, differential equations, discrete mathematics, geometry, mathematical biology, probability, and statistics, and recent Ph.D. students have worked in each of these areas.

### Program Highlights

- Our faculty are highly collaborative and students have the opportunity to work one-on-one with faculty.
- Graduate students participate in seminars in our research areas and organize the Graduate Student Intercollegiate Mathematics Seminar.
- Students are afforded multiple opportunities to gain teaching experience.
- Recent graduates have obtained tenure-track and postdoctoral positions at colleges and universities, as well as positions in government and industry.

### Contact:

**Professor Robert Neel • 610-758-3731 • www.lehigh.edu/~math • rwn209@lehigh.edu**



## PHYSICS – Ph.D.

The department offers an M.S. and a Ph.D. in physics, with specializations in astrophysics, atomic and molecular physics, biophysics & soft condensed matter, computational physics, condensed matter, nonlinear optics and photonics, particle physics, string theory, and statistical physics.

### Program Highlights

- Graduate students in physics at Lehigh are involved in major national and international research collaborations. These include the Relativistic Heavy Ion Collider at Brookhaven National Laboratory; the XSEDE national supercomputing network; collaboration with Oak Ridge and Berkeley National Lab; the NERSC and RACF computing facilities; and astrophysical facilities like the Large Synoptic Survey Telescope and the NASA TESS mission.
- The physics department has a wide range of state-of-the-art equipment and experimental facilities. These include the Physics Laser Spectroscopy Laboratory, several laser sources, providing everything from precise low-bandwidth coherent radiation to wavelength tunable femtosecond and picosecond short pulses, and advanced spectroscopy equipment from the visible to the infrared. Other equipment includes atomic force microscopes, a Raman microscope, a near field UV optical microscope, optical tweezers, a Fourier transform spectrometer, and several other confocal optical microscopes.
- Lehigh physics research uses additional university facilities including the Lehigh High Performance Computing Center, the Center for Photonics and Nanotechnology, several Interdisciplinary Research Institutes, and several material analysis, fabrication, and characterization facilities.

### Contact:

**Professor Ivan Biaggio • 610-758-3931 • physics@lehigh.edu • www.physics.lehigh.edu**

## PSYCHOLOGY – Ph.D.

The Ph.D. in Psychology at Lehigh University is a research-intensive program in which students and faculty work collaboratively in areas of cognitive, developmental, and social psychology.

Our Cognition and Cognitive Neuroscience focus includes research on cognitive control, attention, memory, language, causal reasoning and categorization. Our Social and Cognitive Development focus includes research on cognitive, perceptual, socio-emotional, cultural and moral development, as well as development of identity, language and literacy. Our Social Cognition and Personality focus includes research on conscious and unconscious processes, prejudice and stereotyping, motivation, health behavior, stress and social relationships.

### Program Highlights

- Our department is highly collaborative and students are encouraged to work in multiple labs.
- Our graduate students regularly present at national and international conferences, and are authors on peer-reviewed publications.
- Our faculty are rising and established leaders in the field, with research labs funded by national agencies (NSF, NIH) and private foundations.
- Students are afforded multiple opportunities to gain teaching experience.

Recent graduates from our Ph.D. program have secured tenure-track faculty positions, post-doctoral research positions, as well as jobs in university administration and government agencies.

### Contact:

**Professor Almut Hupbach • 610-758-6762 • inpsy@lehigh.edu • http://psychology.cas2.lehigh.edu**