



EMORY

L A N E Y
GRADUATE
S C H O O L

Graduate Division of
Biological and Biomedical
Sciences



The Biochemistry, Cell and Developmental Biology (BCDB) program at Emory University is a cross-disciplinary training program that encourages and fosters innovative thinking and experimentation.

Biochemistry, Cell and Developmental Biology

The life sciences are advancing at an unprecedented pace.

At the core of these advances are three foundational life sciences: Biochemistry, Cell Biology, and Developmental Biology. Biochemists elucidate the chemical reactions that sustain all living things; Cell Biologists examine how these reactions govern cellular processes; and Developmental Biologists investigate the interactions of cells during the growth and differentiation of organisms.

Emory's Biochemistry, Cell, and Developmental Biology (BCDB) program combines these complementary disciplines, into an interdisciplinary doctoral training program of the highest caliber. BCDB students are making discoveries at the levels of molecules, cells and organisms that improve our understanding of biological processes, including those that cause or prevent human disease. The pathways to discovery provide the experience necessary for successful scientific careers in academia, industry or government. Whether your goal is basic science or translational research we offer research opportunities that will enable you to impact human health and our understanding of the world.

Discover Emory

Emory University is a premier research institution. Trends in NIH funding rank Emory among the fastest growing medical centers in the U.S. The medical school is highly ranked, and major research centers, such as the U.S. Centers for Disease Control and Prevention (CDC), Yerkes Primate Center and Winship Cancer Institute are located on or near campus. Emory is well known for strengths in many scientific disciplines. With over 50 faculty members in our program and over 300 faculty in the Graduate Division of Biological and Biomedical Sciences, Emory is sure to have a leading researcher with state-of-the-art facilities in the specialty of your choice.

CREATE NEW KNOWLEDGE

Collaborative

The BCDB program reflects the interdisciplinary nature of modern research. Our faculty members are drawn from a number of basic science and clinical departments at Emory. Our program encompasses diverse disciplines, including biochemistry, cell biology, development, molecular biology, structural biology, cancer biology, genetics, neuroscience, and others. Students may work with any of the ~330 faculty in the Graduate Division of Biological and Biomedical Sciences, or visit their labs to learn new techniques.

Find out more about our faculty and the projects they are engaged in. You will find a complete list, with links to brief project descriptions, on the faculty research page of our website.

Visit www.biomed.emory.edu/PROGRAM_SITES/BCDB/research_B.cfm

Curriculum

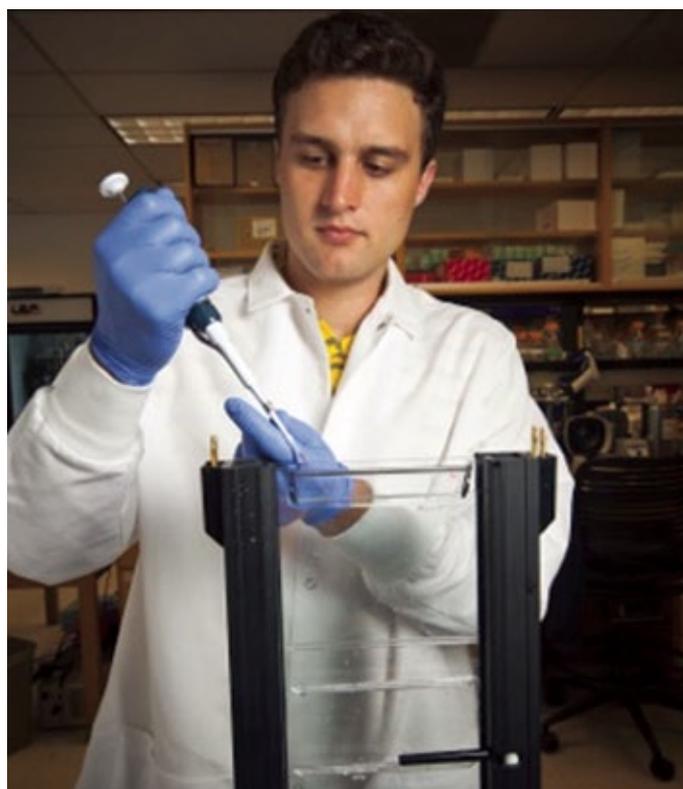
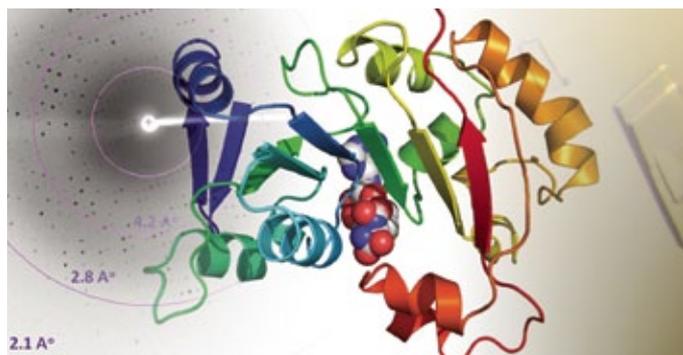
The BCDB program offers an ideal training venue for students. In the first year, BCDB students participate in an innovative series of mini-courses covering a range of topics in biochemistry, cell biology and development. They also get research experience through three laboratory rotations.

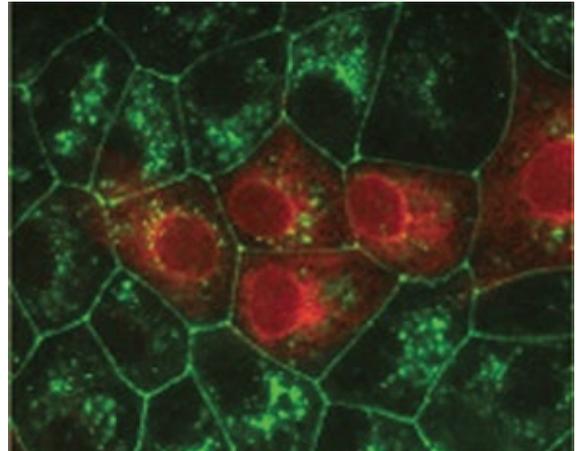
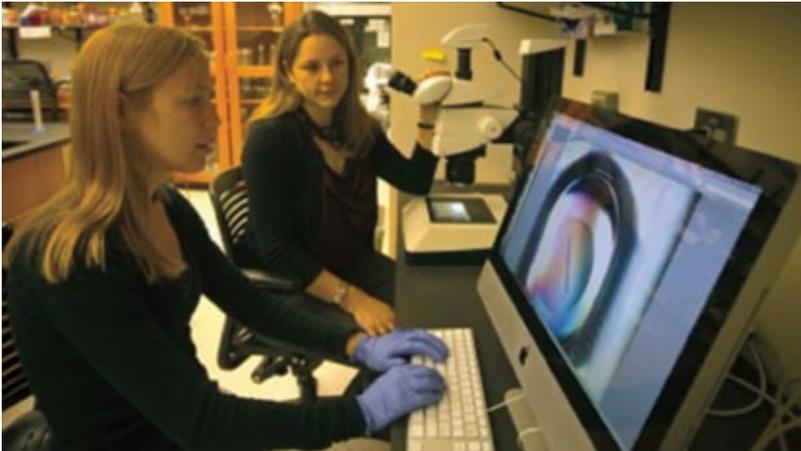
In the second year and beyond, students focus on dissertation research in their chosen laboratory but also supplement their training with a course in biostatistics and one in hypothesis development and experimental design in a unique faculty peer-reviewed grant-writing course. Students may also choose from a number of electives in their specialized area of interest. The curriculum emphasizes communication, and critical thinking skills through journal clubs and student seminars. Students also gain valuable classroom teaching experience with a one-semester requirement that can be expanded to fit the desires of the student. Enhancing the educational experience in the BCDB program are monthly workshops devoted to ethical issues related to scientific research.

The prospective and current student part of our website has details about all degree requirements, and more. Visit www.biomed.emory.edu/PROGRAM_SITES/BCDB.

Supportive

BCDB students conduct world-class research in a cooperative environment. A high faculty : student ratio ensures that each student receives a level of personal attention and guidance that cannot be matched by larger programs. Travel to scientific meetings is encouraged and financially supported by the program. Workshops on different aspects of professional development occur monthly. All students receive biannual guidance from interdepartmental dissertation committees, and develop broad skill sets that contribute to competitiveness in a number of different career paths in academia, industry, or government.



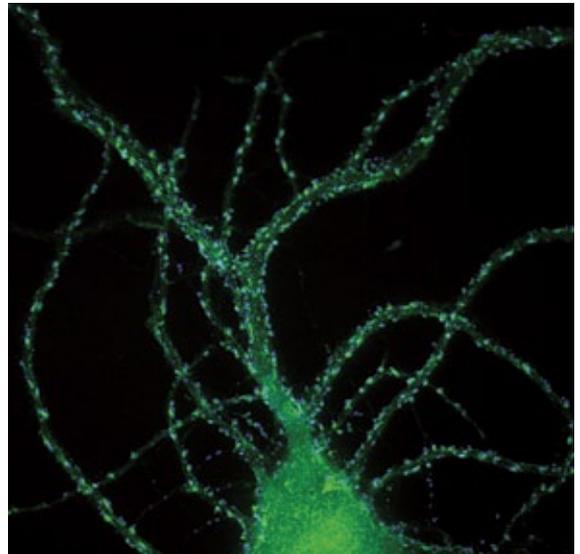


Experience Atlanta

Atlanta is one of the most vibrant and exciting cities in the U.S. It is a culturally diverse metropolis with 45 colleges and universities and a broad range of restaurants, nightclubs, cafes, museums, shops and outdoor activities to suit every taste. Emory is located on a beautiful campus in the historic Druid Hills neighborhood of Atlanta, which features a stimulating, eclectic atmosphere and a reasonable cost of living. The nearby Hartsfield-Jackson International Airport provides easy access to all corners of the U.S. and the world.

Are you ready for the challenge?

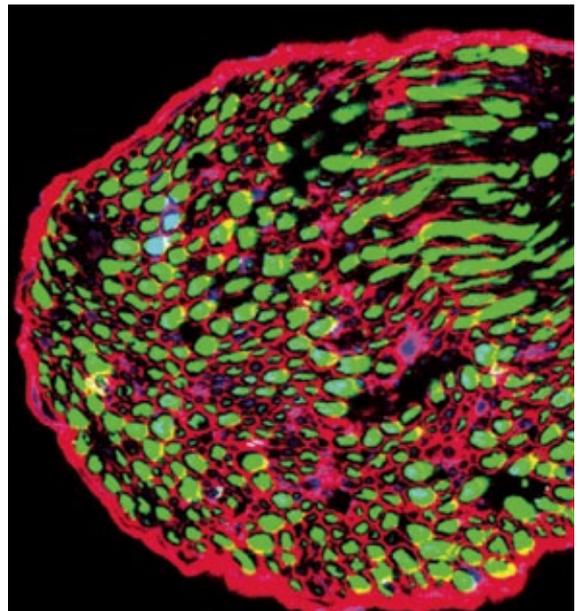
We are both selective and rigorous, but don't follow a cookie-cutter approach to finding the best students. Successful applicants have strong undergraduate records in the sciences, and usually have research experience. But the desire to learn can be more important than experience, and each applicant is individually assessed for those qualities that are not contained in quantitative test scores. Are you creative? Are you curious and intuitive? Are you ready to devote yourself to research at the highest level? You may be someone we are looking for.



For More Information

Visit www.biomed.emory.edu/PROGRAM_SITES/BCDB

email: BCDB@emory.edu



About the GDBBS

Emory University is one of the major biological research and medical referral centers in the Southeast and is among the fastest growing Medical Centers in the United States. Emory is consistently ranked in the top 20 institutions nationally for NIH research support. Emory was recently named one of the 25 “New Ivies” by *Newsweek*, a testament to its quality and dedication to education. Emory was also ranked as having the sixth most beautiful campus in the nation by *The Best Colleges*.

The Graduate Division of Biological and Biomedical Sciences (GDBBS) has over 460 graduate students in nine interdisciplinary Ph.D. programs:

- Biochemistry, Cell and Developmental Biology
- Cancer Biology
- Genetics and Molecular Biology
- Immunology and Molecular Pathogenesis
- Microbiology and Molecular Genetics
- Molecular and Systems Pharmacology
- Neuroscience
- Nutrition and Health Sciences
- Population Biology, Ecology and Evolution

Over 330 world-renowned researchers mentor students admitted to these programs, giving them a unique opportunity to train with faculty at:

- American Cancer Society
- the U.S. Centers for Disease Control and Prevention
- Emory College
- the Robert W. Woodruff Health Sciences Center
- the Rollins School of Public Health
- The Carter Center
- the Winship Cancer Institute
- the Yerkes National Primate Research Center

Financial support includes a tuition scholarship, health insurance and a competitive stipend (\$28,000 for the 2012 – 2013 academic year). Funding is guaranteed as long as the student is making satisfactory progress toward their degree. The average time to degree is about 5.5 years. Training is interdisciplinary and students have the flexibility to perform their thesis work with GDBBS faculty outside their chosen program. Students typically perform three rotations before affiliating with a faculty member for their dissertation research.

The application deadline is December 1st for the following fall semester.

Laney Graduate School Degree Programs

Anthropology
 Art History
 Behavioral Sciences and Health Education
 Bioethics
 Biological and Biomedical Sciences
 Biochemistry, Cell and Developmental Biology
 Cancer Biology
 Genetics and Molecular Biology
 Immunology and Molecular Pathogenesis
 Microbiology and Molecular Genetics
 Molecular and Systems Pharmacology
 Neuroscience
 Nutrition and Health Sciences
 Population Biology, Ecology, and Evolution
 Biomedical Engineering
 Biostatistics
 Business
 Chemistry
 Clinical Psychology
 Cognition and Development (Psychology)
 Comparative Literature
 Computer Science and Informatics
 Development Practice
 Economics
 Educational Studies
 English
 Environmental Health Sciences
 Epidemiology
 Film Studies
 French
 History
 Graduate Institute of the Liberal Arts
 Health Services Research and Health Policy
 Islamic Civilizations Studies
 Mathematics
 MD/PhD
 Music
 Neuroscience and Animal Behavior (Psychology)
 Nursing
 Philosophy
 Physics
 Political Science
 Religion
 Sociology
 Spanish
 Women's, Gender, and Sexuality Studies



EMORY
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Requests for Additional Information:

RECRUITMENT AND ADMISSIONS
 Graduate Division of
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 Emory University
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 Atlanta, GA 30322

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 biomed.emory.edu/program_sites/bcdb