



**ST. JOHN'S
UNIVERSITY**

ST. JOHN'S COLLEGE OF
LIBERAL ARTS AND SCIENCES

Doctor of Philosophy in Biology

ABOUT THE PH.D. IN BIOLOGY

As a student in the Ph.D. program in Biology at St. John's University, you master the foundational principles of biochemistry and molecular biology, understand the scientific process and how it advances knowledge of the biological sciences, and effectively communicate your ideas and experimental results.

The 60-credit curriculum introduces you to the fundamentals of biology, with an emphasis on biochemistry, cellular, and molecular biology. Courses cover topics such as biomolecules and cell structure; molecular genetics; subcellular structure and biochemistry; growth, movement, and regulation; and developmental and systems biology. You also conduct research rotations through at least two research laboratories, where you are introduced to the specific techniques and research approaches of individual faculty members. Further training consists of upper-level specialized courses, innovative research leading to the doctoral dissertation, and advanced seminars. Our faculty members are funded by federal research grants in the areas of cancer biology, neuroscience, epigenetics, evolutionary and developmental biology, and plant and environmental sciences.

WHAT CAN I DO WITH A PH.D. IN BIOLOGY?

A doctoral degree in biology allows you to pursue research and teaching positions at colleges, universities, and medical schools. You may also find opportunities in managerial positions in industry or government, in patent law, or as a writer or editor for a scientific publisher.





Doctor of Philosophy in Biology

MESSAGE FROM THE DIRECTOR

Our Ph.D. program in Biology offers rigorous training in molecular and cellular biology to prepare you for a competitive job market. Under the guidance of our dedicated faculty members, you carry out an independent research project for publication in internationally recognized, peer-reviewed journals and give poster presentations at international meetings. Most of our graduates pursue careers in research at top universities or in industry. Others become teaching faculty members at the college or university level, or go into patent law or scientific publishing.

Yong Yu, Ph.D.

*Associate Professor and Graduate Director
Department of Biological Sciences*

RESEARCH AND PROFESSIONAL DEVELOPMENT

As a doctoral student in biology, you carry out two rotations in different laboratories before choosing your dissertation mentor, who guides you through the intellectual and experimental aspects of the scientific research process. You work closely with our dedicated faculty, both assisting with research and conducting your own original research for publication in peer-reviewed journals.

FELLOWSHIPS, ASSISTANTSHIPS, SCHOLARSHIPS, AND FINANCIAL AID

The University awards a limited number of doctoral fellowships and graduate assistantships to highly-qualified students each year. These positions provide tuition remission and a stipend and involve teaching laboratory classes, functioning in the capacity of an adjunct faculty member.

For more information about assistantships, as well as other types of financial aid and scholarship awards, please visit the Graduate Admission page at www.stjohns.edu/admission/graduate.

PROGRAM INFORMATION AND APPLICATIONS

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