



PhD Program in **SYSTEMS, SYNTHETIC, & PHYSICAL BIOLOGY (SSPB)**

WHY SSPB? To realize the potential of engineered biological systems, we must first understand the organizing principles of life through bottom-up synthetic biology and top-down systems biology studies. SSPB researchers operate at this interface to understand the physical biology language that determines the emergent behaviors of natural and engineered biological systems, such that new cellular functions can be designed with robust characteristics that allow for meaningful applications.

OUR PROGRAM. Established in 2013, the SSPB Ph.D. program at Rice University now includes 46 doctoral students and more than 50 program faculty from ten departments in the Schools of Engineering and Natural Sciences. As the first program in the world to develop an SSPB curriculum, we are continuing to grow our core faculty and instrumental infrastructure through a university-wide synthetic and physical biology initiative.

OUR CURRICULUM. Students in our program work towards developing a strong foundation in the life sciences and the experimental skills needed to integrate biological inquiry with rigorous, quantitative mathematics and physics. In consultation with faculty advisors, each student designs a tailored training pathway to fit personal interests, strengths, and career plans. Students also have access to a wide range of world-class professional development resources on campus to develop their teaching, entrepreneurship, and leadership skills.

APPLY NOW FOR FALL 2021 ADMISSIONS

Priority Deadline: December 15, 2020

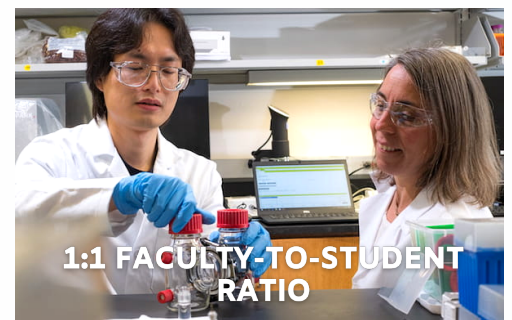
Final Deadline: January 4, 2021

FIND OUT MORE AT

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**MEMBER OF WORLD'S
LARGEST MEDICAL CENTER**



**1:1 FACULTY-TO-STUDENT
RATIO**



**> 40% SSPB STUDENTS
ARE WOMEN**



RICE UNIVERSITY
Systems, Synthetic and Physical Biology (SSPB) Program
Institute of Biosciences & Bioengineering