Welcome to the Institute of Biosciences and Bioengineering at Rice University!

This institute hosts the nationwide National Science Foundation Research Experience for Undergraduates (NSF REU) in BioNetworks.

The goal of this program is to provide students first-hand experience with cutting-edge interdisciplinary research that is needed to predict biological functions sufficiently to reprogram cells to avoid diseases or to perform new tasks. Program dates are 6/1/20 - 8/7/20.

Students will work on research projects under faculty mentors that draw from a range of approaches (classical biochemical and genetic to non-trivial theoretical models that require computation) to study naturally-occurring genetic networks, artificial genetic and metabolic networks, and biomolecular structure, function and evolution.

This program provides: a creative opportunity for students to develop innovative biotechnological ideas; leadership, mentorship and social retreats; special seminars and career development workshops; a $5,250 stipend and up to $500 in travel support; on-campus housing; a capstone research poster symposium; and an ethics and responsible conduct of research discussion seminar.

The program is open to undergraduates from all disciplines of science and engineering. Applicants may be students at any institution, but must be U.S. citizens or permanent residents. Applicants may be freshmen, sophomores or juniors, and prior research is not required.

Apply online at https://ibb.rice.edu/nsf-reu-bionetworks

Application deadline 2/7/20

The focus of this NSF REU program is biological networks, complex interactions among biomolecules that give rise to the diverse biological phenotypes observed in nature.
We are not students of some subject matter, but students of problems. And the problems may cut across the borders of any subject matter or discipline.
- Karl Popper

This summer undergraduate program includes:

Seminars & Lunch Meetings
We will have several seminars on research topics related to multi-scale biomolecular networks. Within the seminar series, sessions on graduate school and career options, how to prepare an effective poster, and an academic leadership workshop will be held, as well as an in depth ethics and responsible conduct of research discussion seminar.

Symposium
The capstone of the program will be a symposium where students will present posters on their work.

Housing, Stipends, & Travel Assistance
Students will receive on campus housing at Rice. Students will also receive a $5,250 stipend and up to $500 in travel support.

What is the IBB?
The Institute of Biosciences and Bioengineering (IBB) at Rice University is an interdisciplinary endeavor, supported by 115 faculty from all departments in science and engineering.

The IBB supports interdisciplinary research & education; fosters ties with the Texas Medical Center; creates partnerships with industry; promotes the translation of research, and facilitates strong research & training programs.

Important Dates
Deadline for application materials: February 7, 2020
Program dates: June 1, 2019 - August 7, 2020

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