U.C. San Diego is proud to launch the Quantitative Biology Ph.D. Specialization Program. This program provides highly motivated and qualified Ph.D. students with rigorous training in quantitative approaches, both experimental and theoretical, to discover the organizing principles of living systems. Our goal is to train future leaders in quantitative biology, equipping them with analytical skills, quantitative tools, and interdisciplinary connections that will empower them to turn biology into a predictive science.

Highlights of the program include

- year-long integrated theory courses applying methods of statistical physics, nonlinear dynamics, and information theory to wide-ranging topics in biology, including genetic circuits, cellular signaling, microbial physiology, tissue & development, ecological communities, and evolutionary dynamics;
- year-long experimental courses (‘hacker lab’) where students design, build, and modify instruments such as spectrometers, confocal microscopes, microfluidic devices, and computer / hardware interfaces in the context of cutting edge research problems pursued by the qBio faculty.

Interested students should apply through one of the following ‘home’ departments according to undergraduate preparation. Applications will be reviewed first according to the admission criteria of the home department, and then for match to the qBio program.

- Department of Bioengineering
- Division of Biological Sciences
- Department of Chemistry & Biochemistry
- Department of Physics
- Graduate Program in Biomedical Sciences

To apply, go to [http://apply.grad.ucsd.edu](http://apply.grad.ucsd.edu), select your home department, and indicate “quantitative biology” under research interest or specialization.