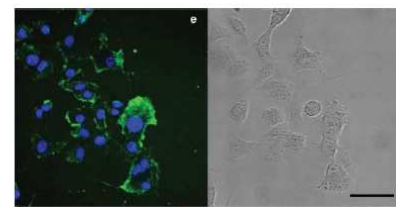


Purdue Scholarship Program in Quantitative Physiology

Where computation and creatures collide!

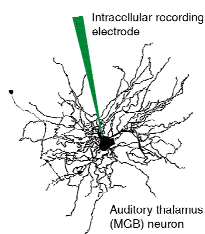
<http://quantphys.math.purdue.edu/>



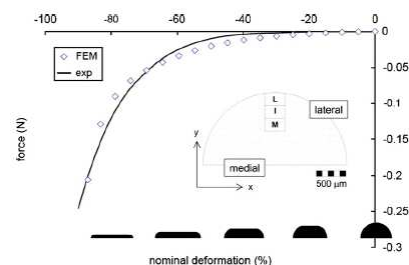
This NSF-funded STEM program provides scholarships and a unique, supportive, training community for academically talented undergraduate students with demonstrated financial need and an interest in learning to approach important biological problems in multiple ways. Students with complementary backgrounds will be paired with one another to form a learning and research community. Students will be drawn from all disciplines related to quantitative physiology, including but not limited to biology, mathematics, biomedical engineering, and agricultural engineering. Financial need and academic promise will be the primary criteria for selecting students for the program.

The goal of this program is to foster interdisciplinary training and research leading to a degree in a field with exciting career prospects. We will provide **financial support of up to \$3500**, community support, and classroom and experiential learning opportunities in quantitative and experimental aspects of physiology. Students in the program will serve as mentors for less senior students and will serve as role models for their previous high schools. Students with complementary backgrounds (quantitative vs bioscience training) will be paired to promote interdisciplinary study and research.

Research opportunities will be available to all interested students in the program. Example research projects include:



1. *Cardiac modeling and electrophysiology*
2. *Experimental models of spinal cord injury*
3. *Neural coding strategies in the auditory system*
4. *Neuronal models of learning-induced plasticity*
5. *Detection and control of epileptic seizure activity*



The deadline for applications is February 1, 2009 or until all spots are filled.

To apply:

1. Download and fill out the application form from the website. Please return a hardcopy to MJIS Room 2019, Martin C. Jischke Hall of Biomedical Engineering, 206 S. Martin Jischke Dr. or you may email the application to kmfay@purdue.edu
2. To assess financial need, if you have not already done so, please fill out the Free Application for Federal Student Aid (FAFSA) at www.FAFSA.ed.gov.