



MATHEMATICS

RESEARCH EXPERIENCES FOR UNDERGRADUATES



Research, Education and Training in Computational Mathematics and Nonlinear Dynamics of Biological, Bio-inspired and Engineering Systems

JUNE 4 - AUG 3, 2012

EARN WHILE YOU LEARN!

Research Areas

- Modeling using deterministic and stochastic differential equations
- Computational biology and biomechanics
- Mathematics of Materials
- Nonlinear dynamics and Micro Air Vehicles
- Mathematics Education

Program Eligibility

Minimum 3.3 GPA
Must be currently in junior/senior year
Must be a US Citizen or Permanent Resident

Financial Support

Stipend (\$3,375)
Travel Allowance (\$550)
Housing and dining provided

Application Deadline

March 2, 2012



Contact

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Research Experiences for Undergraduates
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About the Program: The Department of Mathematical Sciences at GMU will host a multidisciplinary undergraduate research program in Research, Education and Training program in Computational Mathematics and Nonlinear Dynamics of Biological, Bio-inspired and Engineering Systems. This program will expose **twelve** mathematics undergraduate students and two **K-12 teachers** to advanced topics in mathematics, problem-solving techniques and multidisciplinary applications, as well as research related to mathematics education. The primary goal of the REU program is to expose twelve highly qualified undergraduate students and two K-12 teachers each year, to advanced topics in mathematics, problem-solving, visualization techniques and applications to bio-inspired and engineering systems. The metro region of Washington, DC is a particularly fertile area for research and work opportunities, including consulting, teaching, and government. Women and minorities are especially encouraged to apply.

Pending funding from the National Science Foundation REU (Research Experiences for Undergraduates) Program and the Department of Defense ASSURE (Awards to Stimulate and Support Undergraduate Research Experiences) Program.