



# NC STATE has an REU for YOU!

## Overview:

The Institute for Mathematics at North Carolina State University (IM@STATE) is a dynamic environment where young mathematicians engage in exciting and challenging projects. Teams of 3-4 students work collaboratively on projects with links to industry and government labs.

## Possible Projects Include:

- Optimal Design of Electron Beam Guns (Calabazas Creek Research, Inc.)
- Modeling Biological Systems (U.S. EPA)
- Financial Mathematics
- Cryptanalysis and the R.S.A.
- Cell Rearrangements in Tissues
- Random Sampling and Matrix Approximations
- Modeling and Simulation of Biological Flows
- Cluster Analytics and Data Mining
- Advanced Materials for Improved Biomedicine
- Quantum Error-Correcting Codes

## REU in Mathematics:

- For full-time mathematics majors, as of September 2010
- 10 week program  
(June 1 – August 6, 2010)
- \$3,600 stipend
- Free dorm room
- Partial meal allowance
- Travel funds up to \$300

## REU+ in Mathematics:

- For under-represented minority students
- 11 week program  
(May 24 – August 6, 2010)
- \$4,000 stipend
- Free dorm room
- Partial meal allowance
- Travel funds up to \$300

## REG in Mathematics:

- For mathematics graduate students in first two years of graduate study
- 10 week program  
(June 1 – August 6, 2010)
- \$4,000 stipend
- Free dorm room (for students not from NC State University)
- Partial meal allowance
- Travel funds up to \$300

## How to Apply:

Processing of applications begins **February 15, 2010**. Application forms and information about the REU, REU+ and REG programs may be found from the following web link: <http://www.math.ncsu.edu/summer/IMSTATE/index.php> or by contacting Professor Aloysius G. Helminck, IM@STATE Director, Department of Mathematics, North Carolina State University, [loek@math.ncsu.edu](mailto:loek@math.ncsu.edu); Telephone 919-515-7720.

**Only complete applications will be considered.**

*Applicant must be a citizen or permanent resident in the United States or its possessions  
Female, minority and physically disabled students are encouraged to apply  
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