



**SUMMER 2004 REU PROGRAM**  
**Undergraduate Research in Applied Mathematics**  
**Mississippi State University**  
**June 9, 2004-August 7, 2004**  
**<http://www.msstate.edu/dept/math/reu>**

**Program:**

The Department of Mathematics and Statistics at Mississippi State University will be hosting a summer REU (Research Experiences for Undergraduates) program during June 9-August 7, 2004 sponsored by the National Science Foundation. This program is aimed at involving eight undergraduate students in active research under supervision of mathematicians who are dedicated researchers and mentors. The major concentration will be in applied mathematics emphasizing the areas of population dynamics and wave propagation in nonhomogeneous media. The objectives are to provide the participants with meaningful research experience, to show them the enjoyment of doing research, to encourage them to pursue advanced degrees in mathematical sciences, and to increase research participation by women and underrepresented groups. At the end of the program the participants will prepare written reports and give presentations of their research. The program will be enhanced with various scientific, cultural, and social activities.

**Eligibility:**

This REU program targets undergraduate U.S. citizens or permanent residents who will complete their sophomore or junior year by June 2004. Students who have background in multivariable calculus, ordinary differential equations, and linear algebra prior to the start of the summer program are eligible to apply. Women, community college students, students from underrepresented groups, students from regions and institutions with limited research opportunities are particularly encouraged to apply.

**Support:**

Each participating student will be provided with a stipend of \$3,200, free on-campus housing, a partial allowance towards meal expenses, and a travel allowance up to \$450.

**Application:**

Application deadline is March 20, 2004 and the selected participants will be notified by April 1, 2004. Online application is available at <http://www.msstate.edu/dept/math/reu>. In addition, a current resume, a current copy of college transcripts, and letters of recommendation by two faculty members should be sent to:

**Prof. Tuncay Aktosun**  
**Summer 2004 REU**  
**Department of Mathematics and Statistics**  
**Mississippi State University**  
**Mississippi State, MS 39762**

**Contact:**

Prof. Tuncay Aktosun  
Dept. of Math & Statistics, Mississippi State University, Mississippi State, MS 39762  
[e-mail: [aktosun@math.msstate.edu](mailto:aktosun@math.msstate.edu); phone: (662) 325-7163; fax: (662) 325-0005]

Prof. R. Shivaji  
Dept. of Math & Statistics, Mississippi State University, Mississippi State, MS 39762  
[e-mail: [shivaji@math.msstate.edu](mailto:shivaji@math.msstate.edu)]