

# Biogeochemical Educational Experiences - South Africa (BEE-SA)

## Research Experience for Undergraduates (REU Site)

June 11 until August 2, 2004



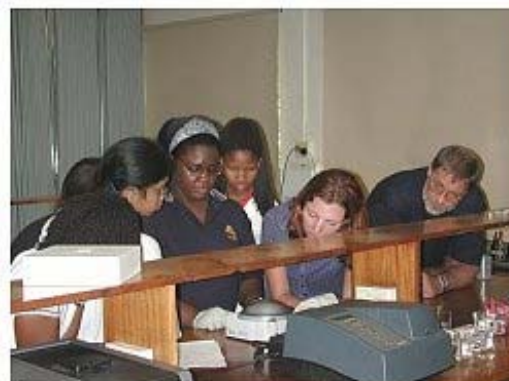
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The University of Tennessee is providing a seven-week Research Experience for Undergraduates (REU) this summer (2004) targeting minority undergraduate students who are interested in careers in Earth Sciences, Biological Sciences, Environmental Sciences, and Engineering. The international host institution is the University of Free State (UFS) in Bloemfontein, South Africa.

### Purpose:

- Engage students in interdisciplinary research
- Encourage students toward scientific careers
- Explore educational, research and biotechnological opportunities to expand the REU efforts



American students will work side by side with South African students under the joint supervision of U.S. and South African faculty, conducting interdisciplinary research on biogeochemical processes in South African gold mines.

As part of the research program, students will present research results during laboratory progress meetings, at a science symposium concluding the REU, and in written manuscript format as a final report. During the REU, students will have several opportunities for exploring science, educational, and technological collaborations as well as, for career development. Students will receive a small stipend, housing and airfare for the REU.

### Research Topics:

- Characterize microbial communities with molecular and biochemical techniques
- Utilize geochemical and isotopic parameters to constrain nutrient cycling in groundwater
- Investigate extreme enzymes – proteomics
- Examine functional genes



### Apply Now!

**Application Deadline: Monday, March 1, 2004.**

For further information and application forms, contact Dr. Susan M. Pfiffner (865-974-8031, [pfiffner@utk.edu](mailto:pfiffner@utk.edu)) or Ms. Kim Davis (865-974-1847, [kdavis17@utk.edu](mailto:kdavis17@utk.edu)). Detailed information on the REU is available at <http://geomicro.utk.edu/>.

The University of Tennessee 



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Free State 