

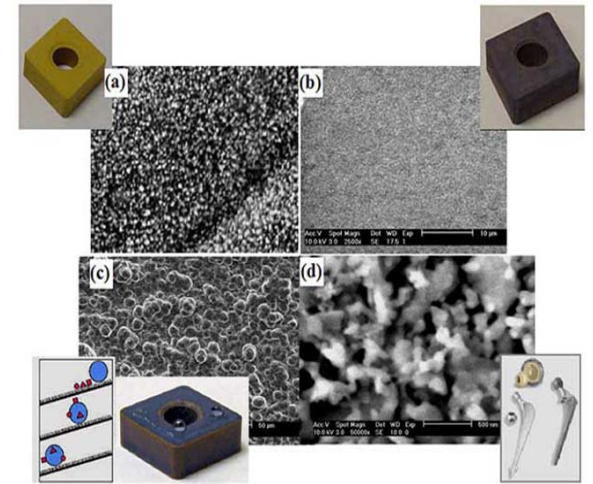
**RESEARCH EXPERIENCES FOR UNDERGRADUATES  
IN  
NANOMATERIALS AND NANOMECHANICS  
AT THE**



**May 18 – July 25, 2008**

**Sample Projects**

- Plasma Diagnostics for the Deposition of Nano-Materials
- Molecular Dynamic Simulations to Minimize Stress Induced Curvature
- Percolation Phenomena in Nano-Particle Composites
- Engineering of Nano-Bio Materials and Manufacturing Processes
- Role of Oxidation in Time-Dependent Superalloy Crack Growth
- Mechanical Behavior of Metallic Nanolaminate Composite Materials
- Nanoscale Biomedical Sensors
- Gold Nanoparticle-induced Crystallization of Amorphous Silicon
- Applying Nanosensor Technologies to HVAC Systems



**Activities**

- Professional Development Workshops
- Nanotechnology Seminars
- Group Social Events
- GRE Preparation

**Award Information**

- \$4,500 Stipend for 10 Weeks
- On-Campus Housing Included
- Food Allowance
- Round-Trip Travel Expenses up to \$450

**Application Process**

- Two-Page Application Form
- Transcripts
- Two Recommendation Letters
- Personal Statement
- See Website Below for more Details

**Eligibility**

- U.S. Citizen or Permanent Resident
- 3.25 GPA
- Mechanical, Materials, Mechanics or Aerospace
- Freshman, Sophomore, Junior or Senior
- Must Graduate after September 2008

**Application Deadline:** March 3, 2008  
**Announcement of Awards:** March 31, 2008  
**Contact:** Dr. Matt Gordon / Dr. Joe Rencis  
**V-mail:** 479-575-4458 / 479-575-3386  
**E-mail:** [mhg@uark.edu](mailto:mhg@uark.edu) / [jjrencis@uark.edu](mailto:jjrencis@uark.edu)

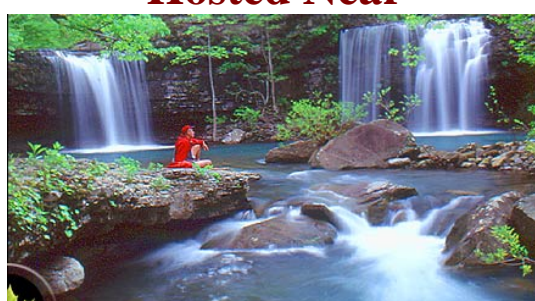


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Mechanical Engineering  
Department

**Applications Available at:** <http://comp.uark.edu/~jjrencis/REU/>

Women and minorities are encouraged to apply.