

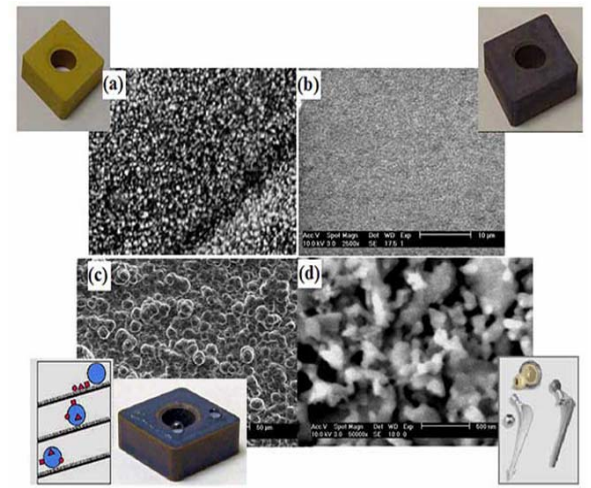
RESEARCH EXPERIENCES FOR UNDERGRADUATES IN NANOMATERIALS AND NANOMECHANICS AT THE



May 20 – July 27, 2007

Sample Projects

- Plasma Diagnostics for the Deposition of Nano-Materials
- Molecular Dynamic Simulations to Minimize Stress Induced Curvature
- Percolation Phenomena in Nano-Particle Composites
- Nanomanufacturing Processes for High Precision NanoEDM
- Role of Oxidation in Time-Dependent Superalloy Crack Growth
- Influence of Porosity on the Mechanical Behavior of FCC Metals
- Carbon Nanotube Based Microsensor
- Atomistic Fracture Simulations of Monolayer Graphene Sheets
- Mechanical and Tribological Properties of Nano-Textured Surfaces



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 2007

Application Deadline: March 16, 2007
Announcement of Awards: April 9, 2007
Contact: Dr. Matt Gordon / Dr. Joe Rencis
V-mail: 479-575-4458 / 479-575-3386
E-mail: mhg@uark.edu / jjrencis@uark.edu

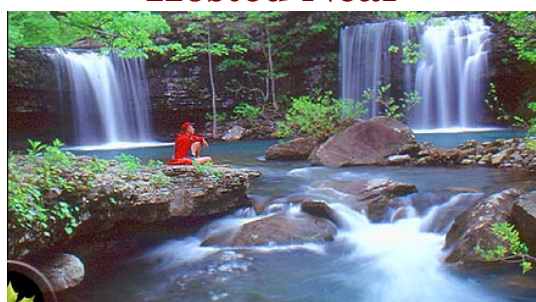


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Mechanical Engineering Department

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

Women and minorities are encouraged to apply.