

Scholarships, Internships & REU

On RAMP to STEM Scholars Meeting
February 5, 2013

Scholarships, Internships & REU

- Engineering Scholarships
 - Many sources: MC, Professional Organizations, Non-Profits
 - Most require FAFSA eligibility (financial need)
- Engineering Internships
 - Private industry, government agencies
 - Most engineering interns are well paid
- Research Experience for Undergraduates (REU)
 - Research universities host undergraduates in research program
 - Valuable opportunity to determine education/career goals
- Common Requirements
 - Application Form, Recommendations, Transcripts
 - Resumes, Cover Letters, Personal Statement, Essays

Engineering Scholarships

- AFCEA-Bethesda
- New American Scholarship and Internship Program
- IEEE
- Phi Theta Kappa - \$37M in scholarship funds
- ASME Scholarships – deadline March 1, 2013
- Federal Government Departments and Agencies
- Jack Kent Cooke Foundation Transfer Scholarship

Engineering Internships

- Why do I want to have an engineering internship?
 - Employers want to hire graduates with hands-on experience
 - Employers pay higher salaries to graduates with experience
- Where do I find engineering internships?
 - [SEM Internships Web Site](#)
 - [MC Student Employment Services – eJobs](#)
 - [Turing Fellows Program for CS and Engineering Interns](#)
 - [Graduating Engineer Web Site](#)
 - [MHEC Maryland BRAC Internship Information Center](#)
 - Company web sites

Internship Employers

- Stress Indicators, Inc. [[SmartBolts](#)] – [MC eJobs](#)
- [Patton Electronics](#) – [MC eJobs](#)
- [E3M, Inc.](#) – [MC eJobs](#)
- [Robotic Research, LLC](#) – [MC eJobs](#)
- [SFC Energy](#)
- [Innovative Biosensors](#)
- [Applied Wireless LAN](#)

- See [Montgomery College eJobs](#) and [SEM Internships Web Site](#) for the latest opportunities

Summer 2012 Internships

Phil Weinstein & Catherine Shelton

- Electrical Engineering major and Aerospace Engineering major
- NIST Engineering Technicians
- Set up new laboratory in the Heat Transfer and Alternative Energy Systems Group of the Building Environment Division (BED)
- [Net-Zero Energy Residential Test Facility](#)



Engineering REU

- National Science Foundation (NSF)
- Federal Government Agencies
- Undergraduate research at host institution
- Student associated with specific research project
- Work closely with the faculty and other researchers
- Students are granted stipends (\$\$\$\$) + expenses
- Must be citizens or permanent residents of the US
- REU site may be at either a US or foreign location
- **Applications open October 1!!!**

Engineering REU

- SEM Internships – REU web pages
 - National Science Foundation
 - The Institute for Broadening Participation (IBP)
- University of Maryland - College Park
- Mid-InfraRed Technologies for Health & the Environment (MIRTHE) REU
- Cornell University
- Georgia Institute of Technology

Summer 2012 REUs

Tam Nguyen

- Electrical engineering major
- U of Maryland College Park MERIT Biosystems Internships for Engineers (BIEN)
- Active Mapping with a Bat Inspired Sonar System – BEST RESEARCH PRESENTATION
- Problems and Progress: Sonar, Crime, and Engineering Ethics – BEST ETHICS PRESENTATION

Katie Hafner

- Chemistry/Biochemistry major
- NIST Summer Undergraduate Research Fellowship (SURF)
- Material Measurement Lab/NIST Center for Neutron Research (MML/NCNR)
- Creating Stable Dispersions of Titanium Dioxide Nanoparticles in Environmental Matrices

Questions?

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