The Maryland Engineering Research Internship Teams (MERIT) program combines cutting edge, team-based research with technical and educational seminars.

Projects under BIEN—Biosystems Internships for Engineers—will use electrical engineering skills and tools to address important biosystems applications.

The projects range from nanotechnology and microelectronics devices to autonomous control, information security, system modeling and speech recognition.

Students typically work in teams and are supervised jointly by faculty members and graduate students.

LAST YEAR’S PROJECTS INCLUDED:

- Micro-Robot Control and Coordination
- Nose on a Chip
- Measuring Dielectric Properties of Simulants of Biological Tissue
- Delta-Spectral Cepstral Coefficients for Robust Speaker Recognition
- Voice Activity Detection
- What Is the Neural Basis of Rhythm?
- Object Tracking and Selective Attention in a Bat-Inspired Echolocation System
- Securing Biometrics Data: A Comparative Study

During the 10-week summer program, students develop their research projects, attend technical seminars, visit local industry and government organizations, meet with leaders in the field and prepare a technical research report. Participants also attend an ethics seminar series covering various ethical concepts and theories as well as their application, especially in research settings. Students actively participate in seminar discussions and brief writing assignments. The summer program culminates in a day-long program where student teams demonstrate their accomplishments and are evaluated by a panel of experts.

MERIT students receive a $5,000 stipend for their work in the summer, plus on-campus housing and partial travel support (if they reside outside of the Greater Washington DC/Baltimore Metropolitan area). UMD students are generally not eligible for on-campus housing.

Subject to funding availability, participants may be eligible to continue their work during the following academic year, receiving a stipend of $1000 per semester. The program begins on May 29 and ends on August 3.

The University of Maryland is located in the greater Washington DC metropolitan area less than ten miles north of our nation’s capital and thirty miles south of Baltimore’s famous Inner Harbor area; both easily accessible by public transportation. These two prominent cities are home to a wide variety of museums, restaurants and other cultural and historic attractions. Annapolis, Maryland, the sailing capital of the East Coast, and the Chesapeake Bay are situated thirty miles east of the campus.

MORE INFORMATION & HOW TO APPLY:

For detailed information, application materials and a complete list of Summer 2012 projects, please visit the MERIT web site at:

http://www.ece.umd.edu/merit/
For program information contact:
MERIT/BIEN Program
Department of Electrical & Computer Engineering
2426 AV Williams Building
University of Maryland
College Park, Maryland 20742
Email: eceadvise@umd.edu
Telephone: 301-405-6082
Fax: 301-314-9281
Web: www.ece.umd.edu/merit/

MERIT Summer Research Program
Department of Electrical and Computer Engineering
2426 AV Williams Building
University of Maryland
College Park, Maryland 20742

MERIT: Maryland Engineering Research Internship Teams
BIEN: Biosystems Internships for Engineers

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Summer 2012: May 29 - August 3

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