

REU Announcement at Virginia Tech

Looking for an exciting and rewarding summer?

Summer 2010

NSF Research Experiences for Undergraduates (REU)
Cognitive Communications @ Virginia Tech
Bradley Department of Electrical and Computer Engineering
Virginia Polytechnic Institute and State University
Blacksburg, VA 24061

Overview

The NSF REU Site at Virginia Tech (VT) supports 10 (ten) undergraduate students to participate in the ongoing research activities of faculty members in the field of *Cognitive Communications* during a 10-week exciting summer session. The REU participants will receive formal instruction on Cognitive Communications and will investigate various problems related to software defined radios, cognitive radios, wireless networks, wireless communication circuits, and human factors engineering in communications. This research will be performed under the day-to-day supervision of four VT faculty mentors. This integrated educational and research experience will be enhanced by weekly formal individual meetings, weekly formal research group meetings, and weekly informal brown-bag lunches. We will also have REU group meetings where students will report their research problems, results to date, future plans, and they will present short papers on some aspect of the research that they find interesting. The REU participants are expected to contribute and advance their chosen research with the help of faculty mentors. Various exciting outdoor social activities are also planned.

Stipend and Allowance

This REU Site program will provide a stipend of \$4,500; a housing and food allowance of up to \$2,000; and a travel allowance of up to \$600; for each student during the 10 weeks in the summer of 2009 (June 1 to August 6, 2010).

Application Deadline

Applications will be accepted through *March 10, 2010*. The application form is available from the program website <http://www.wireless.vt.edu/REU>

Eligibility Requirements

- Must be a citizen or permanent resident of the United States.
- Must be undergraduates, who will be juniors or seniors in the fall semester of 2010, with a major in electrical engineering, computer engineering, computer science or a closely related field.
- Must have an overall GPA of at least 3.0 and have a strong background in Mathematics and basic Electrical Engineering, Computer Engineering, or Computer Science.

Minorities, women, handicapped students, and students from “undergraduate” institutions where research opportunities are not available are especially encouraged to apply.

Contact: Ms. Cyndy Graham: grahamc@vt.edu

REU Application Form

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Application Guidelines

The application deadline is March 10, 2010. The application must be submitted electronically to Ms. Cyndy Graham: grahamc@vt.edu

Application Checklist:

- The Cognitive Communications @ Virginia Tech REU application.
- Research statement (2 pages max).
- Official transcript(s) from all colleges attended.

PLEASE NOTE:

1. All applications will be reviewed and notified of a decision by April 15, 2010.
2. Successful applicants must complete and sign a Participation Agreement prior to official acceptance into the program.
3. Each REU participant must commit to participate in assessment activities at both the VT REU Site and their home institutions after the REU experience.

Application Form

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Application Deadline: March 10, 2010

Name: _____
 First Name Middle Name Last Name

Email Address: _____

University/College: _____

Major(s): _____ **Minor(s):** _____

Current Cumulative GPA: _____ **Sex:** _____ **Age:** _____

Expected Undergraduate Graduate Date: _____

Citizenship: _____
(Only US citizens or permanent residents are eligible for this program)

Ethnicity: This information is requested for the purpose of determining compliance with federal civil rights laws. Your response is completely voluntary and will not affect the consideration of your application. By providing this information, you will assist us in assuring that this program is administrated in a nondiscriminatory manner.

- | | | |
|--|--|--|
| <input type="checkbox"/> Native-American | <input type="checkbox"/> Asian or Pacific Islander | <input type="checkbox"/> Black, non-Hispanic |
| <input type="checkbox"/> Hispanic | <input type="checkbox"/> White, non-Hispanic | <input type="checkbox"/> Other |

Mailing Address: _____

Permanent Address: _____

1. Is cognitive communications research conducted at your home institution?
2. Are undergraduate research experiences available to you through your home institution?
3. Which graduate degrees does your home institution offer in electrical engineering, computer engineering, computer science or related field?
4. List the computer languages you are familiar with.
5. Write a statement (2 pages max) addressing the following:
 - scholarly accomplishments and/or academic interests relevant to communications;
 - career goals and previous research experience;
 - most significant extracurricular accomplishments, community activities, community service, honors, and awards;
 - research interests and why you would like to participate in this program;
 - If a particular research topic from our website (www.wireless.vt.edu) interests you, please mention it and explain your interest.
6. Attach recent official transcripts of all college course work.

Signature: _____ (electronic is fine)

Date: _____

My signature above indicates that all information given in this application packet is accurate and true to the best of my knowledge. I understand that submission of false information is grounds for immediate dismissal from the REU: Cognitive Communications program at Virginia Tech.

Submit completed applications to Ms. Cyndy Graham at grahamc@vt.edu