



## GAANN Fellowship in Energy-Aware Experimental Computer Systems



Addressing the energy consumption and related security issues in embedded systems, data centers/clouds, operating systems and distributed systems

The Department of Computer Science at State University of New York at Binghamton invites applicants, who are interested in pursuing doctoral degrees in the areas of Energy-Aware Experimental Computer Systems (EA ECS), to apply for the Graduate Assistance in Areas of National Need (GAANN) Fellowship. *The EA ECS research area is quite broad and addresses the energy consumption and related security issues in embedded systems, data centers/clouds, operating systems, and distributed systems.* Successful applicants will be supported through the GAANN Fellowship grant for one to three years, and will receive a stipend of \$30,000 and full tuition during this period. Subject to satisfactory academic performance, the GAANN Fellows will continue receiving financial support, in the form of Teaching Assistants or Research Assistants. Each Fellow will be funded for a total of five years or until completion of their PhD (whichever comes first).

### Each GAANN Fellow will receive

- Stipend of up to \$30,000 per year for up to five years
- Tuition and health insurance
- Computer/laptop
- Funds to travel to research conferences
- Books and other research supplies

### Application Procedure

To apply for GAANN Fellowship, a student should submit a PhD application through

[https://buonline.binghamton.edu/banner/bwskalog.p\\_displuginnew](https://buonline.binghamton.edu/banner/bwskalog.p_displuginnew)

The application should contain the following:

- A cover letter, indicating intended research areas and faculty mentors with whom the applicant would like to work.
- Official academic transcripts from all post-secondary institutions attended.
- At least two recommendation letters.
- Complete financial statements.
- A signed statement from the applicant, declaring permanent residency or U.S. citizenship.
- A resume detailing experience, accomplishments, and skills of the applicant.
- A personal statement describing the applicant's professional goals, including the applicant's specific research interests, any experiences that have influenced the applicant's intended career path, and the applicant's vision of how research should help shape the instruction and education of students.
- Official GRE score
- Online graduate degree application and application fee

We strongly encourage you to contact the CS Graduate Program Coordinator and/or the faculty mentors (listed in the next column).

**Application Deadline (Spring 2014): Oct. 15, 2013**

### Additional Contact Information

Prof. Leslie Lander  
Computer Science Graduate Coordinator  
Email: [lander@binghamton.edu](mailto:lander@binghamton.edu)  
Phone: (607)-777-2309

### Eligibility

- Be a U.S. Citizen or a permanent resident
- Plan to pursue PhD in Computer Science at Binghamton
- Plan to specialize in research areas related to Energy-aware experimental Computer Systems
- Have a demonstrated financial need

### Selection Criteria

The selection of GAANN Fellows will be made without regard to race, color, national origin, religion, gender, age, or disabling condition. The selection criteria are given below:

- outstanding academic record, judged based on transcripts, letters of recommendation, and relevant experience both within the discipline and extracurricular experience;
- demonstrated financial need, judged based on the criteria used to award financial aid to Binghamton students;
- the expressed motivation to pursue a PhD and career goals in teaching and research.

### Research Areas Related to Energy-Aware Experimental Computer Systems

- **Embedded Systems:** Energy-Aware Processors, Non-volatile Storage, Energy-Aware Embedded Applications
- **Datacenters/Clouds:** Virtualization, Systems-level Power Management, Virtualization Security, Datacenters/Cloud Security.
- **Operating Systems:** Processor Scheduling, Power Budgeting, Energy-aware IO
- **Distributed Systems:** Grid Computing, Fault Tolerance

### Faculty Mentors

Kanad Ghose, <http://www.cs.binghamton.edu/~ghose>  
Kartik Gopalan, <http://www.cs.binghamton.edu/~gopalan>  
Michael Lewis, <http://www.cs.binghamton.edu/~mlewis>  
Ping Yang, <http://www.cs.binghamton.edu/~pyang>

For more information about GAANN Fellowship, please visit <http://www.cs.binghamton.edu/~pyang/gaann/>

SUNY Binghamton is an affirmative action/equal opportunity employer. Women and underrepresented minority candidates are strongly encouraged to apply for these fellowships.