



## GRADUATE ASSISTANCE IN AREAS OF NATIONAL NEED (GAANN)

### Doctoral Fellowships in Computer Science: NEXT-GENERATION SCIENCE & PRACTICE OF SOFTWARE ENGINEERING

We are seeking applications to join our research group from prospective Ph.D. students who plan to specialize in software engineering. Applicants for the 2010–2011 or 2011–2012 academic year who also meet the eligibility criteria may apply for a GAANN Doctoral Fellowship. Selected fellows enroll in a specialized curriculum, participate in a teacher education program, conduct basic research in software engineering, and conduct applied research in a production environment. Each Fellow is eligible for up to three years of service-free support followed by up to two years as a GRA/GTA for the Department, for a total of no more than five years of support.

#### PROGRAM OVERVIEW:

##### *Eligibility Criteria*

- U.S. citizen or permanent resident
- New Ph.D. student in CS at UA
- Specialization in software engineering
- Outstanding academic record
- Demonstrated financial need
- Career goals in teaching and research

##### *Potential Research Topics*

- Software Maintenance & Evolution
- Program Comprehension
- Empirical Software Engineering
- Model-Driven Engineering
- Mining Software Repositories
- SE for Computational Science

##### *Benefits*

- Stipend of up to \$30,000<sup>†</sup> per year
- Tuition and health insurance
- Laptop and other computing equipment
- Travel to research conferences
- Professional society dues<sup>‡</sup>
- Research supplies such as books

##### *About the Software Engineering Group*

- 5 current faculty members
- 1 new faculty member in August 2011
- 2 postdoctoral researchers
- 18 Ph.D. students
- 3,000 square feet of new research space
- <http://software.eng.ua.edu/>

#### CONTACT INFORMATION:

##### *GAANN Fellowship Program*

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##### *CS Graduate Programs*

Susan V. Vrbsky, Ph.D.  
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[http://cs.ua.edu/graduate\\_programs/](http://cs.ua.edu/graduate_programs/)

The University of Alabama, Tuscaloosa, is the first university in the state, founded in 1831, and is the largest institution in the state, enrolling over 30,000 students. In Fall 2010 the University is ranked 34<sup>th</sup> among national public universities by U.S. News and World Report, its 10<sup>th</sup> consecutive year in the top 50. The Carnegie Foundation classifies the University as a research university with high research activity.

<sup>†</sup> The amount is based on the student's financial need as determined by the Office of Student Financial Aid at UA.

<sup>‡</sup> The Fellow receives student memberships in ACM, ACM SIGSOFT, IEEE, and IEEE Computer Society.