College of Engineering
UNIVERSITY OF GEORGIA

DATA ANALYTICS
GRADUATE FELLOWSHIP
The University of Georgia College of Engineering is looking for outstanding candidates with an interest in data analytics to join their Ph.D. program in Spring 2022 or Fall 2022.

Participating graduate fellows will have the opportunity to work closely with engineering faculty in machine learning, data analytics, and artificial intelligence projects. Fellows will join a cohort of students in a stimulating learning environment. The training program includes a strong research component but also an intense training in teaching and collaborative proposal writing.

The program seeks candidates that are committed to learning, exchanging ideas, and enhancing the diversity and inclusion values at the University of Georgia. This program is part of a much larger innovation initiative at the UGA Innovation District and will allow you to explore your creativity while designing the next generation of data analytics technologies.

The ideal candidate for this fellowship will have:

- B.S. or M.S. degree in Computer Science/Engineering, Electrical Engineering, Statistics, Applied Mathematics, or equivalent.
- Hands-on experience with signal processing, machine learning, deep learning, and computer networking.
- Project experience with a diverse set of programming languages and embedded system development skills.
- Candidates with awards in computer science and engineering related competitions are strongly encouraged to apply.
FELLOWSHIP APPLICATION

Outstanding candidates interested in this fellowship should submit the following documents electronically at this link:

engineering.uga.edu/graduate-student-funding

Note that the fellowship application is separate and independent of the application to graduate program.

1. CV (including a list of publications - if applicable - relevant experiences, programming experience, etc.)
2. A two-page statement of research interests and plans
3. A list of three references with contact information

GRADUATE PROGRAM APPLICATION

Once candidates' fellowship applications are reviewed, candidates will be encouraged to submit a formal application to the graduate programs in the UGA College of Engineering. Detailed instructions for submitting an application, admission requirements, and a complete list of engineering graduate degrees can be found at this link:

engineering.uga.edu/graduate-programs/admissions

FELLOWSHIP FUNDING

The program includes an assistantship for up to four years that includes the following:

- **Stipend** $30k per year
- **Tuition waiver** ($13k for in-state student and $37k for out-of-state student per year)
- **Travel funds** of $1000 in years 3 and 4 to attend conferences

POTENTIAL PROJECTS

Sensing and Data Analytics
Real-time safety, health and security monitoring through multi-modality spatio-temporal sensing and data analytics – active projects include the non-invasive safety and health monitoring of human subjects, security and health monitoring of power, building and manufacturing systems.

Augmented Reality Agents in Manufacturing
The addition of digital agents to help monitor machines and interact with personnel and automate tasks as part of large cyber physical social system.

Collaborative Robot Safety
Integration of sensing, training, visualization, and machine learning to ensure that personnel and robotics have the knowledge and ability to interact with each other with high levels of trust.

Integrative Precision Agriculture
Similar to changes observed in the manufacturing industry’s trend toward Industry 4.0, the agricultural industry is going through a deep transformation where automation and digital technologies are changing the life of farmers and food production systems.
THE BIRTHPLACE OF PUBLIC HIGHER EDUCATION IN AMERICA

The University of Georgia, a land-grant and sea-grant university, is one of the nation’s oldest, most comprehensive, and most diversified institutions of higher education. UGA is currently ranked among the top 16 public universities by U.S. News & World Report. The University’s main campus is located in Athens, approximately 65 miles northeast of Atlanta. The University’s enrollment totals nearly 40,000 students including over 30,000 undergraduates and over 9,000 graduate and professional students.

The College of Engineering, formed on July 1, 2012, is building a vibrant academic environment that fosters engineering education in a liberal arts environment and research that addresses critical societal needs. The College offers eight accredited undergraduate and seven graduate engineering degree programs spanning all engineering fields. The college has grown rapidly to more than 2,400 undergraduate and graduate students and 85 faculty members.

ATHENS: ONE OF AMERICA’S GREATEST COLLEGE TOWNS

There is something for everyone in the Classic City of Athens, Georgia. Whether you are a fan of the distinctively local restaurants, the locally-roasted coffee, the nationally-known music scene, or the city’s many historic treasures, Athens is a classic college town with plenty to keep you busy. Athens provides its residents with a small community feel, where there is truly a place for everyone. It is the perfect mix of education, fun, sports, and traditions – which are taken very seriously at UGA. Come ring the Chapel Bell to celebrate your biggest victories during your graduate fellowship and walk under the Arch when you reach the end of your journey.

UGA’s campus is just a few steps away from downtown Athens, giving students easy access to Athens’s thriving culture. More than 65 specialty shops, 55 restaurants and cafes and 40 taverns and music venues line the streets of downtown. Over the years, Athens has become a cultural hotspot, and a mecca for music and arts. Located in the rolling foothills of the northeast Georgia mountains, Athens is only an hour from Atlanta, the ninth-largest metropolitan area in the U.S. and home to the busiest airport in the world.