

# GTRI Undergraduate Research Internship Program (URIP)



## An Applied Research Opportunity

At the Georgia Tech Research Institute (GTRI) we develop advanced technology solutions and large-scale system prototypes to address the most difficult problems in national security, economic development, and overall human betterment. As a world-renowned and highly respected applied research and development organization we combine science, engineering, economics, policy and technical expertise to solve complex problems.

Discover how we put effective, practical solutions into action in our 10-week Summer Undergraduate Research Internship Program (URIP). Students have the opportunity to work with mentors and other students on tough problems facing government and industry across our nation and around the globe.

### Internship Details

- ▶ May 21, 2018 through July 27, 2018
- ▶ 40 hours per week; \$20+ per hour
- ▶ All undergraduate majors considered. Rising 3<sup>rd</sup> and 4<sup>th</sup> year, preferred
- ▶ Most of our positions conduct research for the US federal government and by contract are required to be US Citizens.

### To Apply

<https://urip.gtri.gatech.edu>



Use your GT ID  
to log in and apply!

## Creating Solutions

The URIP has project opportunities related to:

- Data Analytics and Software Development
  - Automated Algorithm Design
  - Biologically Inspired Fluid Transport
  - Interactive Data Visualization and Analysis
  - Python Wrapper Framework for the Test Matrix Tool
  - Spotify's Luigi Data Analysis and Python
- LIDAR
  - LiDAR Based Counter-UAS Intercept Systems
  - LiDAR Data Processing and Exploitation
- Cyber
  - Autonomous Cyber Defense
  - Data Visualization Methods in Cybersecurity
  - Embedded System Cybersecurity
  - Malware Clustering Evaluation
- Hardware Development
  - Characterization of Transmit and Receive Modules
  - Dispense Support Station (DSS) Test Station
  - Integrated Aquaculture Systems
  - Novel Applications of NeuroCube
  - Oscillator Metrology with Software Defined Radio
- Health Information Systems
  - Mock Electronic Medical Record System Development
  - Blockchain Technology to Improve Security of Electronic Health Records
- Materials
  - Material Libraries for Hyperspectral Scene Synthesis
  - Plasma and Vacuum Based Engineered Materials
- Robotics and Augmented Reality
  - Collaborative Augmented Reality Framework
  - Dexterous Manipulation with a Robotic Arm
  - Swimming Swarms
- Simulations
  - Advanced Manufacturing Simulation
  - Numerical Solutions for Sparse Systems of Equations
  - Serious Gaming for Electronic Warfare Simulations
  - Xplane for Electronic Warfare Trainer