

STEM Internships

About Engility

Engility delivers innovative solutions to critical challenges facing the nation and the world. As a premier provider of integrated services for the U.S. government, we support the Department of Defense, intelligence community, space communities, federal civilian agencies and international customers. Engility is dedicated to making lives better, safer and more secure.

Description

Engility is seeking professionals to join the Space Systems Group (SSG). The SSG provides specialized engineering, analysis, and operations support to a variety of Intelligence Community (IC) and Department of Defense (DoD) customers. We support the future of national security-related space systems.

For the summer of 2018, SSG has several STEM internship positions available. These interns will be conducting analysis and technical advisory services for an IC research and development (R&D) customer. This customer is developing the next generation of space systems and ground architectures.

Roles and responsibilities potentially include:

- Work side-by-side with existing subject matter experts in orbital mechanics, spacecraft design, optics, Radio Frequency (RF), communications, and/or modeling and simulation
- Develop modeling and simulation tools to assist with analysis of complex, technical problems relating to a wide variety of spacecraft and systems
- Work with the customer to explore new missions, Concept of Operations (CONOPs), and architectures to solve some of the hardest intelligence problems facing the nation
- Develop algorithms to perform analysis and produce much-needed data products
- Maintain and improve large scale simulations to support multiple missions
- Integrate existing models from mission partners into simulations
- Model dynamic agent behaviors
- Evaluate complex results and determine engineering recommendations based on analysis
- Quickly translate user needs into effective software solutions
- Develop documents and briefings to communicate work or study status, brief government and industry as required

Areas of Technical Interest:

- Electro-optical, RF, and radar sensor systems
- Information Systems / Network Engineering
- Space systems
- Modeling & simulation software development
- Emerging and cutting edge technologies
- Operations Research
- Statistics
- Game Theory
- Data Analytics
- Relational databases
- Graph theory

Required Qualifications

- Pursuit of BS in a STEM related degree field such as Engineering, Mathematics, Physics, or Computer Science
- Ability to work with multidisciplinary teams
- **US Citizenship required and must be willing and able to obtain a Top Secret/SCI security clearance including polygraph**

Desired Qualifications

- Experience using C, Python, R, SQL, postgresSQL, linux, TCL/Tk, MATLAB, VB, and/or STK
- Experience modeling and simulating complex systems
- Knowledge of IC systems and terminology
- Previous internship or work experience

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