

Application for Travel Grant for 2025 ERAU-NASA-NSF AeroCyber Workshop

Gabriel Adams

The ERAU-NASA-NSF AeroCyber Workshop is a premier event that brings together cybersecurity professionals dedicated to strengthening the security of our nation's aerospace industry. I am eager to attend this workshop to deepen my understanding of aerospace cybersecurity, engage with leading experts in the field, and contribute to the growing community focused on securing critical aviation and space systems.

Recently, I have taken on the significant challenge of helping establish a satellite security research division at my university, where I serve as a Satellite Security Lead Researcher. This role has pushed me to explore the security challenges inherent in satellite communications, including vulnerabilities in transmission protocols, cryptographic defenses, and countermeasures against signal interference and cyberattacks on satellite ground stations. While my background is rooted in embedded security for power systems, I have found that many of my skills and interests translate well into satellite security, but I would love the opportunity to interact with industry professionals and learn more through their work and experiences.

Attending this workshop would be an invaluable opportunity to connect with industry professionals, explore career pathways in aerospace cybersecurity, and apply my knowledge in the aerospace cybersecurity capture-the-flag (CTF) competition. I am particularly interested in learning about emerging threats in aviation and space communication, gaining insight into how government agencies and private industries are tackling these challenges, and refining my technical skills to better contribute to this field.

Long-term, my goal is to work in national defense cybersecurity, focusing on securing aerospace, satellite, and military communication systems. This workshop will provide me with the technical exposure, professional networking, and hands-on experience necessary to advance in this critical area of cybersecurity. I look forward to the opportunity to immerse myself in the latest developments in aerospace security and apply what I learn to my ongoing research and future career endeavors.

Thank you for your consideration,

Gabriel Adams

