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**PO Box 7392**

**Hampton, VA 23666**

## AIAA HRS-ARD Career and Professional Development Seminar **Career Options and the Need for Skilled Technicians in the Aerospace Workforce**

### **SPEAKERS:**

- Amanda Braun, NASA Space Technology Research Fellow,
- Scott Bartram, Technician, Measurement Systems Branch
- Nicole Tennant, Operations Manager, Unitary Plan Wind Tunnel Complex

### **BIOS:**

#### Amanda Braun



After completing the welding program at a local community college and transferring as a mechanical engineering major at U.C. Davis, she decided to continue into higher education to eventually work as a research scientist and, one day, teach at a community college. She chose Purdue University for the unique capabilities of the Maurice J. Zucrow Laboratories and Dr. Terrence Meyer's

research group which focused on laser diagnostics in combustion and propulsion. This field was attractive due to the idea of developing diagnostic tools that could then be utilized to further our understanding of a wide variety of environments and dynamics, from energetic materials to wind tunnels. Amanda is currently a PhD candidate at Purdue University, advised by Dr. Terrence Meyer and Dr. Mikhail Slipchenko.

#### Scott Bartram



Associates Degree in lasers and electro optics from Texas State Technical Institute. 7 years working at Hughes Aircraft (Electro Optical Systems Division) building laser range finders and target designators. Employed at NASA starting 1988

after answering an ad in the Los Angeles times to help investigate particle image Velocimetry as a possible off-body flow field measurement technique. Over the years there have been opportunities to work with developing laser vibrometers, laser-based surface deformation measurements, acoustic arrays, Lidar measurement systems, and flexible lenses for space projects. The work includes designing and building optical systems in AutoCAD and on a bench-top then transitioning that to a wind tunnel. This includes plumbing, electronics, machine work and interacting with many different people.

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Nicole Tennant



Nicole began her career with Jacobs in June 2019 as a Mechanical Engineer on the Maintenance and Reliability Engineering Team at NASA LaRC. From 2019 until her promotion to Operations Manager in 2022, she was responsible for asset performance management of approximately 48K assets at NASA LaRC. This large-scale effort included asset criticality analysis, failure modes and effects analysis, and developing asset strategies. Her expertise in data analytics and her innate skill to create visual aids to improve understanding and communication of large complex data sets was repeatedly called on to support both Center and Agency asset data mining efforts. Nicole was selected for and successfully completed Jacobs' Internal Leadership Program and she currently serves as an Innovative Task Team Champion for Intelligent Asset Management. Nicole received her B.S. from Old Dominion University in July 2019 and is currently working towards her M.S in Engineering Management.

**DATE:** Tuesday Feb 21, 2023

**TIME:** 1:15 pm – 2:30 pm

**PLACE:** NASA Langley Research Center, Building 2102, Room 108 (Pearl Young Theater)

The talks will be recorded and available to members after the video edits are completed. All NASA badged workforce/interns/AIAA members can attend in person. Attendees Need a valid NASA badge whether on or off site, including student interns, post docs, retirees, and contractors.

**Contact:** Liz Ward, AIAA HRS Career and Profession Development Chair

[elizabeth.b.ward@nasa.gov](mailto:elizabeth.b.ward@nasa.gov)