

# WORKSHOP

# A New Approach to Microelectronics Workforce Development for Government

# 2023 ERI SUMMIT



**PROGRAM MANAGER:** Dr. James Wilson Ph.D., Microsystems Technology Office

<b>DATE:</b> Thursday, August 24, 2023	<b>TIME:</b> 8:30am-3:30pm
<b>ROOM NAME:</b> 501 Chiwawa – 5 <sup>th</sup> Floor	

## DESCRIPTION

*This workshop will present new approaches to address technology challenges and workforce development efforts in government-focused microelectronics development and hardware security, fields where qualified graduates are notably hard to find. Government, industry, and academic panelists will prepare and present potential technically-focused solutions for enhancing the domestic hardware security workforce using the Heilmeier questions to guide their thinking. A panel discussion will follow the presentations and focus on how to get more students involved in hardware for government needs, especially from historically black colleges and universities (HBCUs), while simultaneously addressing the biggest technical challenges in the space.*

## AGENDA

<b>08:30am-08:35am</b>	Introduction <b>Dr. James Wilson, DARPA MTO</b>
<b>08:35am-09:00am</b>	H2: How is workforce development done today, and what are the limits of current practice? <b>Bryan Casper, Intel Labs</b>
<b>09:00am-09:25am</b>	H2: How is workforce development done today, and what are the limits of current practice? <b>Dr. Kanton Reynolds, Director of Undergraduate Programs at NC State</b>
<b>09:25am-09:45am</b>	H3: What is a new approach to workforce development and why will it be successful? <b>Prof. Kevin Kornegay, Morgan State University</b>
<b>Morning Break: 9:45am-10:15am</b>	
<b>10:15am-10:40am</b>	H3: What is a new approach to workforce development and why will it be successful? <b>Dr. Kara Perry, USN</b>
<b>10:40am-11:05am</b>	H3: What is a new approach to workforce development and why will it be successful? <b>Dr. Ken Mai, Carnegie Mellon University</b>
<b>11:05am-11:30am</b>	H3: What is a new approach to workforce development and why will it be successful? <b>Dr. Oluseyi Ayorinde, DEVCOM Army Research Laboratory</b>
<b>Lunch Break: 11:30am-12:30pm</b>	
<b>12:30pm-12:55pm</b>	H3: What is a new approach to workforce development and why will it be successful? <b>Prof. Andrew Kahng, University of California San Diego</b>
<b>12:55pm-01:20pm</b>	H4: If workforce development efforts are successful, what difference will it make? <b>Rev. Canon Hugh R. Page Jr., Notre Dame</b>
<b>01:20pm-01:45pm</b>	H5: How do we measure success in workforce development? <b>Dr. Eric W. Breckenfeld, Nvidia</b>
<b>Afternoon Break: 1:45pm-2:15pm</b>	
<b>02:15pm-03:25pm</b>	<b>Panel Discussion:</b> Addressing Technology Challenges While Developing the Next Generation of Hardware Security Workforce
<b>03:25pm-03:30pm</b>	Closing Remarks <b>Dr. James Wilson, DARPA MTO</b>
<b>Workshops Conclude at 3:30pm</b>	