



Acquisition Directorate

Research, Development, Test & Evaluation and Innovation

Overview

Blue Technology Center of Expertise

UNITED STATES COAST GUARD

SEA, AIR, SPACE CONFERENCE

03 AUGUST 2021

Meet the Team



JENNIFER IBAVEN



Jennifer is a Program Manager at the United States Coast Guard's Blue Technology Center of Expertise. Her focus is in the development and coordination of integrated Science and Technology projects that respond to existing and evolving Coast Guard mission needs. Her previous work has focused in technical facilitation, knowledge management, and project management. Having previously worked for NASA-Jet Propulsion Laboratory, she is excited and honored to bring her skills to the U.S. Coast Guard's Blue Technology Center of Expertise. A Los Angeles native, she spends her free time traveling and volunteering.



PETER VANDEVENTER

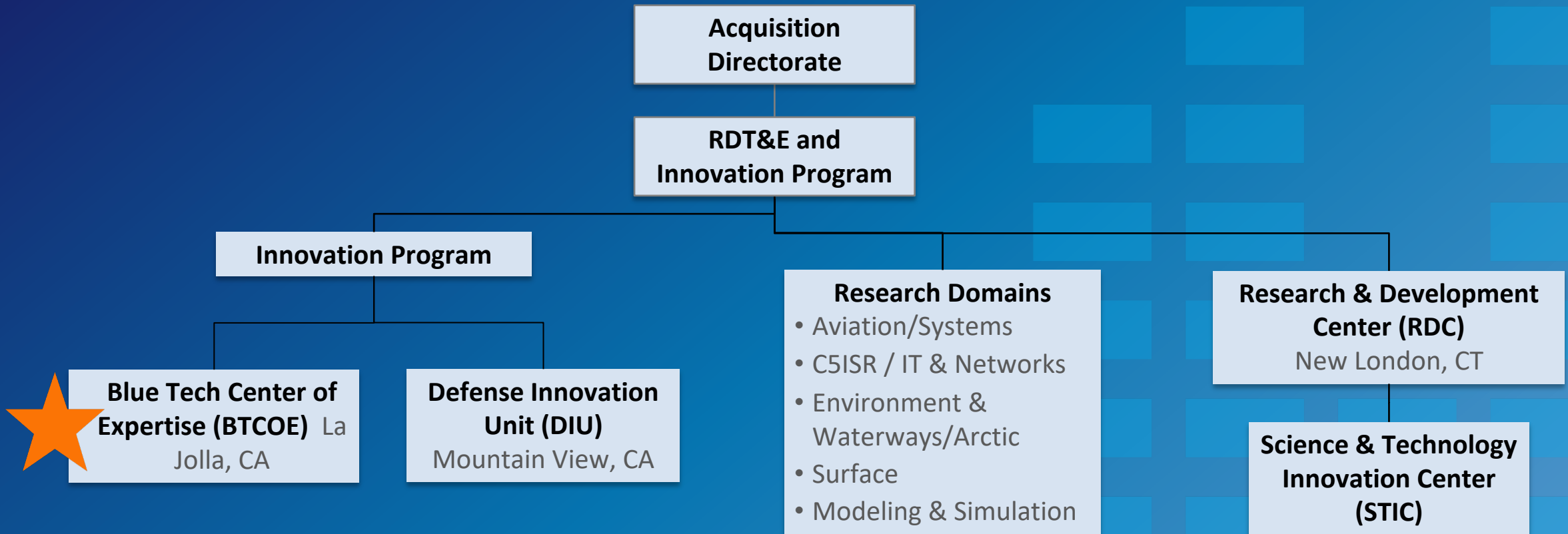


Dr. Peter Vandeventer is a multidisciplinary Program Manager and scientist with experience funding highly technical Research & Development activities, for universities, small businesses, and government labs, to achieve innovative yet pragmatic solutions to challenging problems. He is excited to utilize his past Department of Defense experience to support the U.S. Coast Guard's Blue Technology Center of Expertise. While having spent the previous 7 years in Virginia, he is originally a native of Los Angeles County, California. He enjoys spending his free time traveling, admiring nature, and spending time with his family and friends.



RDT&E and Innovation Program

ORGANIZATION OVERVIEW



USCG RDT&E and Innovation Program



Blue Tech COE Overview



The U.S. Coast Guard is the **principal federal agency** responsible for maritime safety, security, and environmental stewardship in **U.S. ports and waterways**.



The **Save Our Seas Act of 2018** authorized the Coast Guard to establish the Blue Technology Center of Expertise (BTCOE) to provide guidance and opportunities for creators of innovative technologies that demonstrate **new capabilities to the Coast Guard**.



In 2019 the U.S. Coast Guard **partnered with UCSD Scripps Institution of Oceanography (SIO)** to establish the BTCOE. SIO has a long-standing history of **developing innovative technology** to observe the planet, as well as **inventing and operating systems** that monitor, study and predict environmental events.

One Hundred Fifteenth Congress of the United States of America

AT THE SECOND SESSION

*Begun and held at the City of Washington on Wednesday,
the third day of January, two thousand and eighteen*

An Act

To reauthorize and amend the Marine Debris Act to promote international action to reduce marine debris, and for other purposes.

*Be it enacted by the Senate and House of Representatives of
the United States of America in Congress assembled,*

SECTION 1. SHORT TITLE.

This Act may be cited as the "Save Our Seas Act of 2018".



What is Blue Technology?



Blue technology is defined by Congress as any technology, system or platform that is **designed for the use or application above, on, or below the sea surface**



Blue technology must be applicable to Coast Guard operational needs and **capable of providing continuous or persistent coverage**



BlueTech COE Mission

*“The Blue Technology Center of Expertise will create a unique pipeline for the **rapid identification** and **implementation** of new maritime technologies into **critical Coast Guard operations** around the globe.”*

- Vice Admiral Michael F. McAllister
Pacific Area Commander




The Blue Technology Center of Expertise (BTCOE) is one the Coast Guard's official conduits to the technology sector. BTCOE was developed to forage for innovative ocean-focused technologies to enhance the Coast Guard's national security and humanitarian missions.



Coast Guard's Broad 11 Missions

- Port & Waterway Security
- Drug Interdiction
- Aids to Navigation
- Search and Rescue
- Living Marine Resources
- Marine Safety
- Defense Readiness
- Migrant Interdiction
- Marine Environmental Protection
- Law Enforcement
- Ice Operations

GoCoastGuard.com 

<https://m.youtube.com/watch?v=mZBI5NsjjCY>



Example Blue Technologies of Interest



Advanced computing capabilities

Data analytics, machine learning, artificial intelligence



Next generation domain awareness

Advanced sensors and autonomous vehicles



Mobility solutions for operations and support activities

Emergent tools to enhance frontline operations



Enhanced technology systems

Increase operator safety and security with technologies that improve Coast Guard missions



BTCOE Activities and Continuum



Promote awareness within the USCG of maritime technologies with potential to enhance mission readiness and operational performance



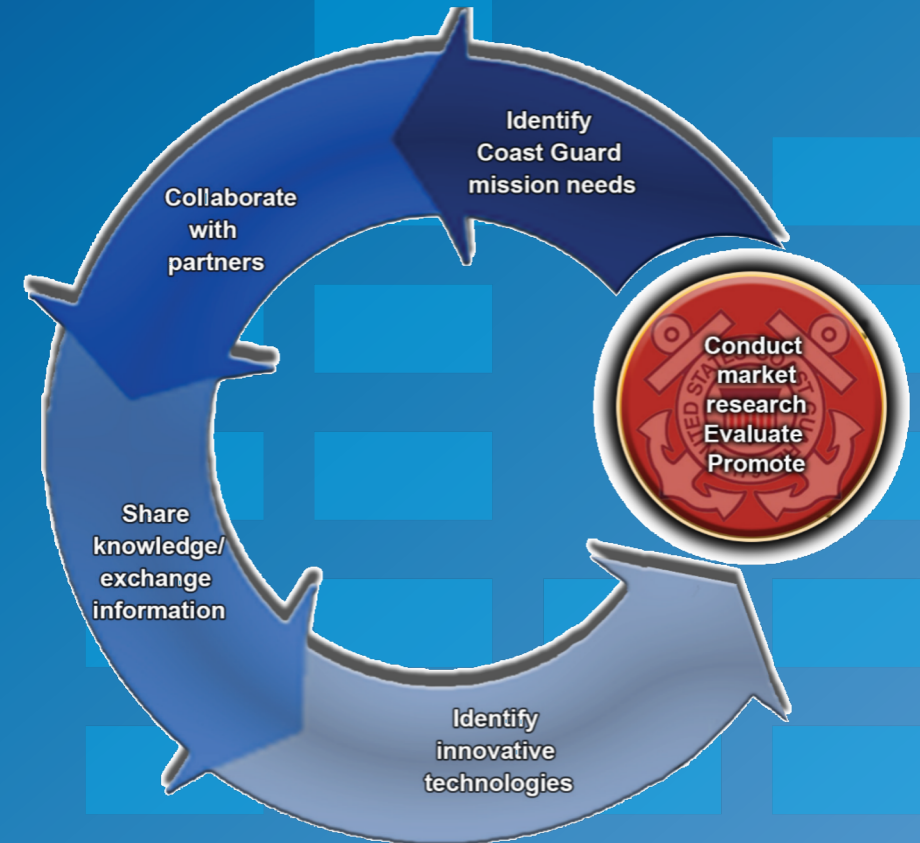
Knowledge transfer and information exchange among the USCG and the private sector, academia, nonprofits, and other Federal agencies



Increase awareness of USCG acquisition policies, procedures, and business practices to vendors



Support USCG districts and RDC through **access to technology sector**



Additional Information

 **Funding Opportunities and Requests For Information:** <https://beta.sam.gov/>

 **DHS SBIR Program:** <https://www.dhs.gov/science-and-technology/sbir>

 **DHS SVIP:** <https://www.dhs.gov/science-and-technology/svip>

 **DHS scholarships, fellowships, internships and training opportunities:**
<https://www.dhs.gov/homeland-security-careers/students>

 **USCG FY21 RDT&E Project Portfolio:**
<https://www.dcms.uscg.mil/Portals/10/CG-9/Acquisition%20PDFs/FY21%20RDTE%20Project%20Portfolio.pdf?ver=1FM0x2JQzpsY4vZ-XhuF6w%3d%3d>



Contact BTCOE

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- **BTCOE Website:**
www.dcms.uscg.mil/acquisition/bluetech

