

An aerial photograph of a large port area during sunset. Several large cargo ships are docked at piers, and a large gantry crane is visible on the right. The water reflects the golden light of the setting sun. A dark blue banner with white text is overlaid on the upper portion of the image.

# **OLD DOMINION UNIVERSITY**

## **MARITIME INITIATIVES**

Marine Board  
4/17/2023

Elsbeth McMahon  
Associate Vice President for Maritime Initiatives

# Mission

Provide progressive education, research, and innovation that promotes the blue economy

# Vision

Be a globally recognized maritime center of excellence and a destination for maritime enterprise



# Strategic Goals

## EDUCATION:

Create and expand **interdisciplinary academic programs** and **enrollment** that supports the blue ecosystem. Promote **diversity**, **inspire leadership**, and prepare students for the **future** to be successful in not just jobs, but in **careers**

## ENGAGEMENT:

Grow **strategic partnerships** with industry, government, academia, and community; better connect students and faculty to research, internship, and career opportunities; increase representation at prominent local, national, and international conferences and events

## RESEARCH AND INNOVATION:

Accelerate collaborative, interdisciplinary research. Be the **partner of choice** for leading institutions to support the national maritime strategy, solve key **industry problems**, protect the **natural environment**, and contribute to **workforce development** and **entrepreneurial growth**. Serve as a beacon for innovation and thought leadership

## COMMUNICATION:

Increase **marketing, communication**, and **transparency** of internal and external opportunities while maintaining the university's overarching brand



## 27 academic programs and 11 centers that focus on maritime teaching and research

- Advanced Manufacturing Initiative
- Center for Geospatial Science, Education, and Analytics (GeoSEA)
- Center for Innovative Transportation Solutions
- Center for Cybersecurity Education and Research
- Chesapeake Bay Program Coastal Virginia Center for Cybersecurity Innovation (COVA CCI)
- Coastal Engineering Institute
- Center for Coastal Physical Oceanography
- Commonwealth Center for Recurrent Flooding Resiliency (CCRFR)
- Digital Shipbuilding and Repair
- E.V. Williams Center for Real Estate
- Hampton Roads Maritime Industrial Base Ecosystem (MIBE)
- Institute for Coastal Adaptation and Resilience (ICAR)
- Insurance and Financial Services Center
- Maritime, Ports, and Logistics Institute
- Center for Coastal Physical Oceanography (CCPO)
- OpenSeas Technology Innovation Hub
- Social Science Research Center (SSRC)
- Spatial Analysis Interdisciplinary Laboratory (SAIL)
- Sustainable Development Institute
- Virginia Institute for Spaceflight and Autonomy (VISA)
- Virginia Institute for Photovoltaics
- Virginia Modeling, Analysis & Simulation Center (VMASC)



# K-12/K-20 workforce pipeline and outreach

## Digital Shipbuilding since 2018:

- **\$10.5M+** in total awards
- **59,200** total number of people engaged
- **33** number of curricula, outreach, workshops, & programming
- **95** number of papers, abstracts, demos, pubs, books, chapters, & presentations
- Maritime Career Experience (MCx)
- Propelling STEM
- CACHE

## Maritime Industrial Base Ecosystem (MIBE) Projects:

- GO TEC Talent Pipeline Project
- Maritime Skills and Careers Journeys
- Maritime Trades Magnet Project (MTM)
- Maritime Entry-to-Employment Training (MEET)
- Maritime Skilled Trades Alignment (MSTA) Project

# University Curriculum Development

- New School of Supply Chain, Logistics, and Maritime Operations
- Maritime and Coastal Innovation Collaboratory (MCIC)
- Maritime 101 course
- Look at certificates, crossovers, working with other maritime training institutions

# Internal and External Outreach

- Faculty Maritime “M” Collaborative
- Increase of interdisciplinary research as we are an R1 University
- Focus the school on the *future* of the industry:
  - Advanced manufacturing
  - Mission engineering
  - Offshore wind
  - Coastal resilience
  - Autonomous systems

## Marketing, Communication, and Advertisement

- Increase presence in maritime outlets and conference representation
- ODU Maritime website
- Annual Maritime Symposium

## Maritime Small Business Innovation and Entrepreneurship

An aerial photograph of a large port area, likely the Port of Norfolk, showing several large gantry cranes along the waterfront, numerous ships in the harbor, and a bridge in the background. The image is overlaid with a semi-transparent blue diagonal pattern.

**Contact:**  
**[emcmahon@odu.edu](mailto:emcmahon@odu.edu)**

