



PATRICK RYAN

**SENIOR VICE PRESIDENT, AND
CHIEF TECHNOLOGY OFFICER (CTO)**

Patrick Ryan is Senior Vice President and Chief Technology Officer for ABS, responsible for ABS' Research and Development initiatives.

Known for his vision and energy in digitizing maritime engineering, Ryan and his team are leading safety and innovation excellence at a global scale through the entire ABS enterprise. His team has the unique responsibility to help the maritime industry in their digital transformations, energy transformations, and through applied research with governments, academia, and industry partnerships.

This is accomplished through three regional R&D divisions in the Americas, Europe, and Asia-Pacific, eight Global Technology Centers in Brazil, Canada, Greece, Denmark, Saudi Arabia, Singapore, Korea, and China, and a comprehensive digital capability for data and analytics, data science, and computational applications. His team performs R&D on topics such as hydrodynamics and ship hull structural analysis, humanoid robotics, nuclear energy, artificial intelligence, digital twins, computational dynamics, augmented reality, and everything in-between as it pertains to safety and protection of life, property, and the natural environment.

Prior to his appointment as CTO in 2023, Ryan led the Global Engineering and Technology organization for ABS, including the development and launch of the ABS Freedom system. Before joining ABS in 2019, he spent 21 years at the largest nuclear shipyard in the United States in various engineering and digital leadership roles for the construction of nuclear-powered ships. He has authored seven U.S. and international patents on the digitalization of shipbuilding, is the recipient of the prestigious Doug Ensor Award for his leadership and work in Naval hydrodynamics, and in 2017, Smart Industry Magazine named him one of the "Top 50" Digital Innovators in Smart Manufacturing.

He graduated from Virginia Tech with a bachelor's degree in aerospace and ocean engineering, and master's in ocean engineering. He currently sits on the University of Michigan's College of Engineering Leadership Advisory Board (LAB), Texas A&M's Engineering Experiment Station (TEES) Advisory Committee, and Virginia Tech's Kevin T. Crofton Department of Aerospace and Ocean Engineering Advisory Board.