



DEFENSE SOLUTIONS

Delivering cutting-edge solutions in design, testing, and deployment to safeguard U.S. security interests across marine, infrastructure, defense, and space sectors through pioneering research and technology transition.



RESEARCH AREAS + CAPABILITIES

Small & Large-Scale Additive
Manufacturing

Digital Manufacturing

Rapidly Deployable Shelters

Predictive Modeling & Simulation

Modular Ballistic Protection System

Textiles & Materials Enhancement

Blast Resistant Structures

Lightweight Military Ground Vehicles

Cargo Security Solutions

Ground, Marine, & Aerospace Vessels

NATIONAL SECURITY

The ASCC is a hub of research and development with expertise in design, manufacturing, testing and deployment, committed to bolstering national security across our research portfolio. With a focus on ocean engineering, civil infrastructure, defense, space and more sectors, the ASCC's innovative initiatives have far-reaching implications for safeguarding critical aspects of our nation's interests.

From advancing vessel structures and composite tooling development in the marine industry, to spearheading forward manufacturing technologies for Expeditionary Advanced Base Operations (EABO) in defense, the ASCC's interdisciplinary approach drives groundbreaking solutions tailored to meet the complex challenges of the modern security landscape. By developing technologies to meet the critical needs of the nation, we lay the groundwork for the transition into technologies that support civilian needs.



Lightweight and rapidly deployable
modular ballistic panel system



Advanced Structures & Composites Center



composites.umaine.edu

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