BMT provides engineering solutions to government and commercial maritime organizations, in the fields of Naval Architecture & Marine Engineering, Acquisition Program Management, Human Factors Engineering, System Safety Engineering, Energy Efficiency, and Environmental Compliance.

Our team of Naval Architects, Marine Engineers, Electrical Engineers, and Systems Engineers are well-versed in all aspects of vessel design, systems integration, construction, and operational support. They have developed successful designs and analyses for vessel owners, operators, other ship designers, and shipyards. Our engineers continually seek to evaluate new technologies and stay abreast of the latest rules, regulations, and engineering methods.

BMT engineers, designers, and project managers have become a team of highly qualified and unbiased ship design integrators who serve as trusted agents for our clients. Always acting in our customers’ best interest, and knowledgeable of the interface details that so often determine the difference between a successful and substandard installation, we endeavor to provide clients with complete solutions to their most pressing engineering needs.

In the highly integrated and complex fields of electronics, marine power generation and distribution, launch and recovery, aviation, configuration management, and human factors engineering, our initial design inputs and engineering change projects support client needs throughout the product life cycle from emergence of new requirements through final installation, sustainment, and disposal.
Capabilities

The BMT engineering team includes a diverse range of technical skills developed over many years performing design studies and engineering analysis. In addition to our traditional naval architecture and marine engineering capabilities we bring specialized expertise in the following areas:

- BMT has extensive capabilities in marine electrical and electronics engineering derived from many years of involvement in ship design and acquisition programs. We are familiar with interdisciplinary systems engineering design processes, in-service engineering requirements, established industry standards, as well as the common shipboard practices and procedures of the operational fleet. Such knowledge makes us highly qualified to perform marine electrical engineering tasks in conjunction with ship design, in-service engineering, control systems engineering, research and development, test and evaluation, and other required tasks.

- Our engineers have worked extensively with the US Coast Guard, helping them to develop launch and recovery systems for small boats, manned aircraft, and Unmanned Aerial Vehicles (UAV). These complex integration efforts require balancing multiple design constraints and challenges in developing changes to shipboard and shore support systems including structures, communications, control, wiring, lighting, certification efforts, and logistics support. BMT has extensive experience with flight deck certification and associated systems' integration on several vessel types.

- BMT project managers and engineers can help develop and operate the tools needed to manage the configuration of complicated acquisition programs. Document management, comment resolution, ship checks for validation, change management and development of other forms of critical documentation are all performed by our team in support of clients' needs.

- Our human factors engineers are noted experts in the diverse fields of Human Factors Engineering and Human Systems Integration. Their knowledge and expertise applied to ship and marine design and evaluation ensures optimum safety and human performance for personnel as well as overall system effectiveness.