



MARINE

Part of a diversified family of solutions

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Services

Marine & Coastal Engineering
Modeling
Coastal Initiatives & Techniques
Port, Harbor, & Marine Consultancy
Small Craft Design
Permitting
Facilities

About Us

JMT is a multidisciplinary engineering firm that offers a full array of architectural and engineering services to clients throughout the United States. Our client base consists of federal, state, and local government agencies, as well as private institutions, commercial, and industrial concerns.

Marine and port facilities are parts of a complex system, designed to facilitate the movement of goods throughout the transportation network. These facilities require expertise in a broad range of engineering and related disciplines.

We support agencies from ship to shore with expertise regarding wharfs, piers, bulkheads, warehouses, buildings, earthwork, foundations, paving, utilities, trackwork, and landscaping.



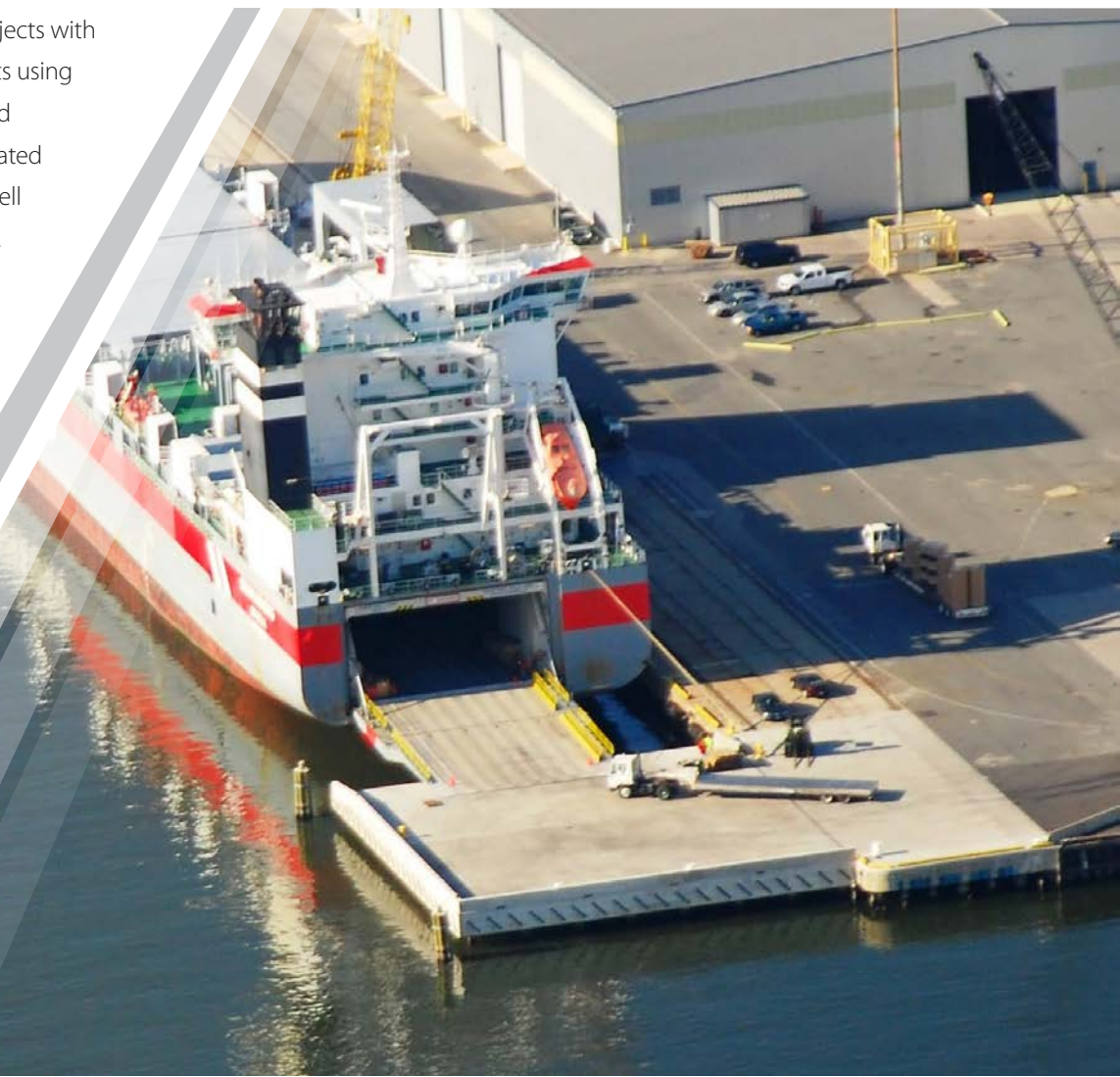
Marine & Coastal Engineering

JMT has a multidisciplinary background in the field of waterfront and marine structure design and construction. Our services range from professional advice and feasibility studies to final facilities planning and implementation in coastal and riverine areas. We plan and manage site investigations through the use of local climatological, environmental, and geotechnical data.

Modeling

We utilize wind, wave, tidal, and current information in hydrodynamic and numerical modeling performed with finite element and fluid dynamics computer software. Involvement and planning for coastal and estuarine structures include projects with offshore breakwaters and revetments using armor units of stone, quarry rock, and tetrapods, shoreline morphology related to coastal stability and defense, as well as marine foundations for structures.

Our professional, highly trained and experienced personnel are members of PIANC, COPRI, WEDA, and AAPA.



Coastal Initiatives & Techniques

JMT also has experience in environmentally favorable coastal techniques, such as Delmarva's Living Shoreline initiative for beach nourishment and shoreline re-establishment and protection in the waters of the Chesapeake Bay and its tributaries. Programs such as these mitigate shore erosion and littoral drift issues commonly seen on waterfront public and private properties on the Eastern Seaboard. Our staff of engineers and scientists is versed in the state, local, and federal agencies' requirements associated with these types of projects to ensure timely and successful results.



Port, Harbor & Marine Consultancy

JMT provides feasibility studies, evaluations, and full discipline engineering to ports, harbors, and marine facilities. Each project has unique characteristics such as vessel draft, offloading and storage requirements, launching and berthing arrangements, and other considerations which our staff coordinates during planning at each location. Our experience includes:

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|---------------|-----------------------------|--------------------------------------|
| Wharves | Ship-To-Shore Cranes | Bulkheads |
| Piers | Bollard & Fendering Systems | Piling Systems |
| Quays | Moorings | Seawalls with Sheetpiling & Concrete |
| Vessel Berths | | |

All applicable elemental forces are considered in the structural designs performed with analytical and finite element software tailored to the specifics of water /wave/land interactions. The planning, development, and design of marinas utilizes JMT's knowledge in hydraulics, community planning, geotechnics, and coastal structures.

Small Craft Design

We have experience in small craft designs with boat access and launching ramps, floating and stationary docks, gangways, slips, boathouses, maintenance and recreational areas, security buildings, roads, and pumping stations. We employ our expertise in hydraulics, community planning, geotechnical, and coastal structures during the planning, development, and design of small craft harbors.

Permitting

JMT's marine engineering and environmental staff is well versed in the various permitting requirements for waterfront structures involving local and federal agencies. JMT can also provide traffic and financial forecasting on-route to complete construction documents.

Facilities

JMT has a full complement of engineering services to meet the needs of traditional port and harbor facilities including structural, civil, geotechnical, landscaping, site and bathymetric surveying, electrical, and mechanical.





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