

## Marine Engineers and Naval Architects

17-2121.00



**Description:** Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment, such as power supply and propulsion systems.

### Other Resources:

[ONET Link](#)

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**Sample of Reported Job Titles:** Marine Architect, Marine Design Engineer, Marine Engineer

### Job Zone

**Title:** 4 - Considerable Preparation Needed

**Education:** Require a four-year bachelor's degree.

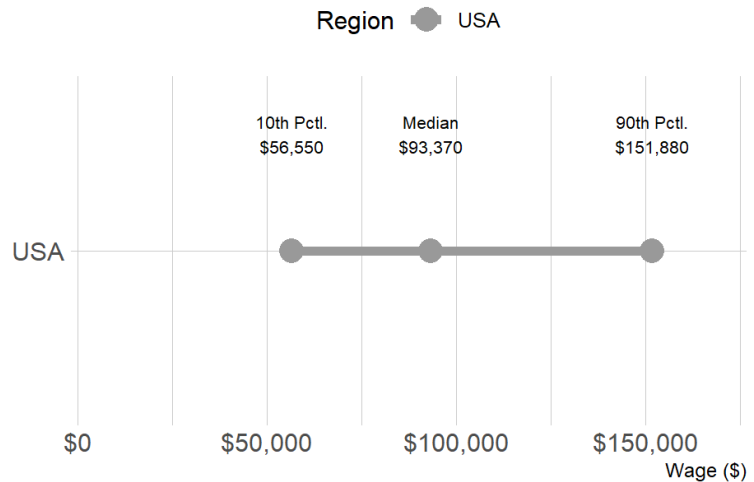
**Experience:** A considerable amount of work-related skill, knowledge, or experience is needed.

**Training:** Several years of work-related experience, on-the-job training, and/or vocational training needed.

**Core Certifications:** Certified Marine Chemist

**Hot Technologies:** Adobe Systems Adobe Acrobat, AeroHydro MultiSurf, Autodesk AutoCAD, Dassault Systemes SolidWorks, Intergraph SmartMarine 3D, Microsoft Access

Region	Employment	Location Quotient	Median Wage
USA	7,380	–	\$93,370



Top 5 Core Tasks According to Current Job Holders	Frequency	Importance (out of 100)
Design complete hull and superstructure according to specifications and test data, in conformity with standards of safety, efficiency, and economy.	More than yearly	85
Supervise other engineers and crew members and train them for routine and emergency duties.	Daily	84
Study design proposals and specifications to establish basic characteristics of craft, such as size, weight, speed, propulsion, displacement, and draft.	More than yearly	83
Perform monitoring activities to ensure that ships comply with international regulations and standards for life-saving equipment and pollution preventatives.	More than weekly	82
Oversee construction and testing of prototype in model basin and develop sectional and waterline curves of hull to establish center of gravity, ideal hull form, and buoyancy and stability data.	More than yearly	82