

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.

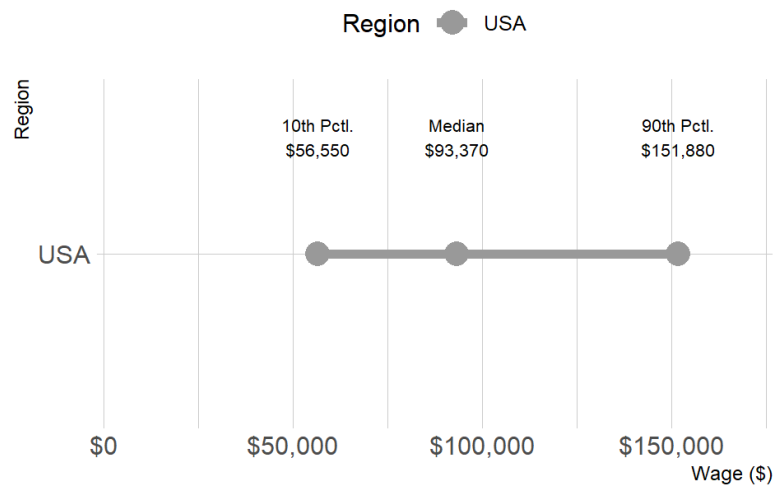
Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

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
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USA	7,380	–	\$93,370
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Top 5 Core Tasks According to Current Job Holders

	Frequency	Importance (out of 100)
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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