



## Earnings

Low:	\$50,000
Average:	\$70,000
High:	\$90,000

## Essential Characteristics

- Attention to detail
- Mechanically inclined
- Keen eye for technical design
- Good spatial awareness
- Ability to work independently and part of a team



# Naval Architect

## Education and Training

Naval Architects are engineers with a focus on designing boats and ships, as well as propulsive and other technological marine equipment. Both a degree in engineering and extensive experience is required prior to becoming part of a companies' design team.

## Nature of Work

Naval architects design and oversee the construction and repair of all types of marine craft and floating structures. They may work individually or as part of a team. Areas of specialization include structure and design, manufacturing processes, research, mechanical practices, hydrodynamics and hydrostatics, propulsion and systems engineering.

Naval architects work in a variety of places from offices to shipyards.

## Main Duties

The naval architect works with clients such as ship owners to prepare the design of a vessel for construction. The architect is the expert and advises on what's possible and what's not, types of material, and how much the project should cost, among many other things.

Knowing what the vessel is expected to do is critical in developing the correct designs for size and shape, and estimating costs. The naval architect also coordinates and works with the construction crew, and marine engineers to develop the mechanics of the vessel.

In addition to the business aspect, naval architects are also part of teams that conduct research on vessel movements through water.

## Typical Employer

Shipyards, consulting firms, offshore contractors, regulatory ship survey societies

## Additional Information

Marine Institute of Memorial University of Newfoundland

[www.mi.mun.ca](http://www.mi.mun.ca)

Robert Allan Ltd. Naval Architects and Marine Engineers

[www.ral.bc.ca](http://www.ral.bc.ca)

Society of Naval Architects and Marine Engineers

[www.sname.org](http://www.sname.org)

UBC Mechanical Engineering Department

[www.mech.ubc.ca](http://www.mech.ubc.ca)