Naval Engineering

Naval engineering is a rewarding career that offers challenge, excitement and satisfaction. It is an opportunity to work collaboratively to solve problems critical to national safety and security. It is a career both steeped in tradition and at the cutting edge of technology. You can be a recognized professional serving one of the most honored and historic industries, in a technical field where you can see and take pride in the product of your effort.

As a naval engineer, you can design, build, operate or maintain ships as diverse as Navy aircraft carriers and submarines, Coast Guard cutters, or commercial passenger and cargo vessels. A choice to become a naval engineer will lead you to a broad variety of engineering and physical science skills while providing teamwork and leadership opportunities.

ASNE can help students through a variety of ways; we provide leadership opportunities at the local and national levels, offer scholarships, and introduce students to a professional environment to help obtain skills to enhance your career objectives and build a network.

Salary Information

Salary for naval engineers will depend in large part on experience and the specific area of engineering, including naval architecture, marine, ocean, mechanical, electrical, or civil engineering. Additionally, salaries will vary based upon whether you are pursuing an active duty or civilian career. According to the U.S. Bureau of Labor Statistics (BLS), the median annual wage for civilian marine engineers and naval architects in 2014 was $92,930 (www.bls.gov).

Job Description

With a college degree in almost any field of engineering, individuals can readily become Naval Engineers.

Naval Engineers create plans, construct and maintain ships, boats and equipment. Their work can include the construction of tankers, sailboats, aircraft carriers and submarines. Civil engineers deal with the structural aspects of a ship such as framing, decks and bulkheads. Mechanical engineers focus on designing machinery for use on the ships including hoists, cranes and anchoring systems and all thermodynamic systems used on modern vessels. Naval architects are focused on the design and stability stages of such vessels - determine aspects such as size, shape, hull form, and weight distribution. Systems engineers work toward integration of multi-mission modular vessels. Human factors engineers ensure safe operating environments from mitigating severe motions to assuring acoustic protection. Electrical engineers work on everything from navionics to defense/weapon systems. Computer engineers are paving the way in cybersecurity.

Whatever type of engineering degree you are pursuing, ASNE stands at the ready to help you pursue a career in Naval Engineering.
By starting an ASNE Student Chapter, you are creating an environment to foster a group of similarly career-oriented students that you can grow and develop with for relationships that will last throughout your careers.

**Benefits of ASNE Student Membership**

- Access to ASNE’s naval engineering career site
- Free admission to most ASNE symposia for full-time undergraduate students
- Scholarship program
- Leadership opportunities at the local and National levels
- Opportunities for direct contact and networking with peers as well as senior executives and military leaders
- Access to the ASNE technical library
- Membership directory
- Community outreach activities
- Volunteer opportunities
- Awards program
- Opportunities to publish technical papers
- Discounts on past symposium proceedings
- Subscription to the Naval Engineers Journal
The request for a Student Section by a group of students may be initiated through either the professional Section in whose geographical area the educational institution resides or through ASNE Headquarters. In the event that this request is through ASNE Headquarters, the ASNE Office will connect the student leaders to their local section leadership for collaboration toward student section establishment.

The petition shall be signed by a faculty sponsor, who must be an ASNE Member in good standing, at the educational institution, the president of the sponsoring professional Section, and no less than 18 students who are Student Members in good standing or who have signified intent to become Student Members if a Student Section is chartered.

The boundaries of the Student Section shall be the boundaries of the institution in which the students are enrolled. The boundary may be extended to include ships owned, chartered, or operated by institutions in which students may be embarked incident to their curricula, or to include satellite/virtual campuses in the region the institution serves.

Where two or more qualified schools are closely located, formation of a Regional Student Section with Chapters in each of the schools will be considered at the request of the Section in whose geographical area the educational institution resides for convenience. The boundaries of such a Section will be the collection of the boundaries of the individual institutions.

The officers of a Student Section shall be Student Members of ASNE and shall consist of no less than a president, vice-president, and secretary-treasurer. In the event that a Regional Student Section is formed, the Regional Student Section council will be comprised of the officers of each of the individual student chapters, the faculty sponsor for the chapter at each institution and the Section’s liaison to each of student chapters located at the individual institutions. Each institution should have equal representation. Student Sections, including Regional Student Sections, shall elect officers from its ranks annually.

Because of the constantly changing membership, the Section responsible for the Student Section shall perform an evaluation of the Student Section once during each two-year period to determine its vitality and viability. The evaluation shall be submitted to ASNE Executive Director and shall include recommendations for continuance, improvement or dissolution.

ASNE will provide 1 year of complimentary student membership to any student providing proof of membership in a related technical society such as AIAA, ASME, IEEE, NSBE, SAME, SHPE, SNAME, or SWE.

Sponsoring sections have an obligation to the student sections to provide programmatic and fiscal support for the student sections under their charge. Development of student members into fully integrated members of the Society upon the completion of their studies should be the primary goal of the Sponsoring Section. It is the responsibility of the Sponsoring Section to ensure that all student members, upon matriculating to ASNE Members have been provided with an understanding of the Society’s objectives of enhancing the knowledge and practice of naval engineering, to enhance the professionalism and well-being of members, and to promote naval engineering as a career field. The Sponsoring Section should make every effort to keep contact with student members upon graduation, and provide a means of keeping these young professionals engaged in the Sponsoring Section for years to come.
STUDENT SECTION CHARTER APPLICATION

Date: _________

University: ____________________________

Sponsoring Professional Section: ____________________________

Charter Student Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Major</th>
<th>Anticipated Year of Graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>President:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vice President:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secretary/Treasurer:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Faculty Advisor Name: ____________________________ Faculty Advisor Signature: ____________________________

Professional Section Chair Signature: ____________________________

Mailing Address for Proposed Section:

____________________________________
____________________________________
____________________________________

Please append to this application any supporting documents demonstrating that University requirements for establishing a student section have been satisfied. In lieu of supporting documents, please have this document signed by the University President or Dean.