

# USMMA ALUMNI SURVEY

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## Marine Engineering Systems



### AGENCY DISCLOSURE NOTICE (ADN)

Public reporting burden for this collection of information is estimated to average 15 minutes per Survey, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to the Dean's Office, USMMA at the address listed below or contact by phone/email.

DEAN'S OFFICE, USMMA

300 STEAMBOAT ROAD

KINGS POINT, NY 11024

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## **USMMA Alumni Survey**

### **Marine Engineering Systems**

#### **INSTRUCTIONS**

Please answer each question by selecting your response among the choices provided for each question. Your response to all questions is deeply appreciated.

Free-response questions are also included. They should be answered directly in the space indicated.

Do Not enter your name, SSN, or other personal identifying information in the Survey. Results will be reported in the aggregate form. Your responses will remain completely anonymous.

Your participation is important for the validity of the results. Failure to respond will result in no penalty to you; however, full participation is encouraged so that the data will be complete and reliable.

When you have finished, submit the Survey online. Your responses will go directly to your department at United States Merchant Marine Academy.

We request that you complete the Survey within 30 days of the link receipt. Point of Contact for this Survey is Ms. Deborah Herceg, Director of Institutional Assessment, 516-726-5831; email: hercegd@usmma.edu.

**United State Merchant Marine Academy  
Dept. of Engineering—Marine Engineering Systems (MES)**

Phone: 516-773-5471; Fax: 516-773-5479

300 Steamboat Road  
Kings Point, NY 11024

OMB Control # 2133-0542

Class Year: \_\_\_\_\_

**Employment**

1. Are you currently:
  - Employed full-time (35 hours per week or more)
  - Employed part-time (less than 35 hours per week)
  - Unemployed
  - Retired
  - Other (specify) \_\_\_\_\_
  
2. Would you classify your employment as part of the maritime industry?
  - Yes                       No    If No, in what industry are your employed  
\_\_\_\_\_
  
3. Employed by: \_\_\_\_\_
  - Position/Title: \_\_\_\_\_
  - Category:    (Choose one)
    - Merchant marine (afloat)
    - Maritime ashore
    - Other
  
4. Your total personal annual salary (before deductions):
  - Less than \$50,000     \$50,000-\$69,999     \$70,000-\$89,999     \$90,000-\$109,999
  - \$110,000+
  
5. Time in current job:
  - Less than 3 months     3 to <12 months     1 to <3 years                       3 to <5 years
  - 5 or more years
  
6. Time to obtain employment after graduation:
  - Obtained prior to graduating     <6 Months     6-12 Months     >12 Months

## Education and Institutional Assessment

7. What was your primary purpose in attending USMMA? (Mark all that apply)

- Interest in the maritime industry as a profession
- To become better qualified for future employment
- USMMA's reputation
- For self development
- High earning potential after graduation
- Other \_\_\_\_\_

8. Since leaving USMMA, I have completed the following:

- Another degree program (Specify)
- A Non-degree program (Specify)
- Certificate Program (Specify)
- Advanced Marine License (Specify)
- Received other License or an Industry Certification (Specify)

9. How effective was your USMMA education in preparing you to excel in each of the following?

**(1 = Very poor, 2 = Poor, 3 = Good, 4 = Excellent)**

- |         |   |
|---------|---|
| 1 2 3 4 | a. Serve immediately as merchant marine officers with the foundation to advance to master or chief engineer                 |
| 1 2 3 4 | b. Capable of work in approved maritime related shore positions with the capability to rise to senior levels                |
| 1 2 3 4 | c. Lead with integrity, competence, and high ethical standards  |
| 1 2 3 4 | d. Work in teams constructively toward common goals   |
| 1 2 3 4 | e. Think critically and creatively, and solve complex problems  |
| 1 2 3 4 | f. Communicate proficiently, both orally and in writing   |
| 1 2 3 4 | g. Demonstrate information literacy and proficiency in the use of information technology                                    |
| 1 2 3 4 | h. Understand and function effectively in the socially, economically, politically and culturally diverse global environment |
| 1 2 3 4 | i. Pursue continued intellectual and professional development   |

10. How would you rate your experiences at USMMA with regard to the following: Please indicate if you agree/disagree with the following statements:

**(1: Strongly Disagree; 2: Somewhat Disagree; 3: Somewhat Agree; 4: Strongly Agree)**

1	2	3	4	a. The Academy's medical services provided satisfactory care
1	2	3	4	b. The Academy's commissary provided nutritious meals
1	2	3	4	c. The Department of Information Technology (formerly the Office of Computer Resources) provided adequate support of the academic program
1	2	3	4	d. The Department of Information Technology (formerly the Office of Computer Resources) provided adequate support during the sea year
1	2	3	4	e. While I was a midshipman, I found the environment to be supportive of my own ethical behavior and decision- making
1	2	3	4	f. While I was a midshipman, I observed faculty, staff and administration displaying a high standard of ethical behavior
1	2	3	4	g. While I was a midshipman, the Honor Code played an important role in the development of my own values
1	2	3	4	h. While I was a midshipman, I was always clear as to the mission of the Academy
1	2	3	4	i. While I was a midshipman, I believed that the Academy's mission was being accomplished.
				<b>Presently, I view the Academy's ...</b>
1	2	3	4	j. Regimental program as having provided an appropriate laboratory for learning leadership skills
1	2	3	4	k. Athletic program as having provided an appropriate laboratory for learning leadership skills
1	2	3	4	l. Faculty and academic officials as having embodied the leadership skills required of a ship's officer
1	2	3	4	m. Library as being fit for the purpose and supportive of the academic program
1	2	3	4	n. Department of Career Services as having provided useful assistance in securing employment
1	2	3	4	o. Office of Shipboard Training as having provided the necessary support in handling my midshipman sea year experiences

11. Overall, how would you rate USMMA in the following areas?

**(1 = Very poor, 2 = Poor, 3 = Good, 4 = Excellent)**

- |         |                         |         |                                   |
|---------|-------------------------|---------|-----------------------------------|
| 1 2 3 4 | Quality of Courses      | 1 2 3 4 | Accessibility of faculty          |
| 1 2 3 4 | Variety of Courses      | 1 2 3 4 | Quality of instruction by faculty |
| 1 2 3 4 | Availability of Courses | 1 2 3 4 | Faculty knowledge of field        |
| 1 2 3 4 | Class sizes             | 1 2 3 4 | Quality of Academic Advising      |
| 1 2 3 4 | Classroom facilities    | 1 2 3 4 | Overall campus environment        |
| 1 2 3 4 | Lab Facilities          | 1 2 3 4 | Waterfront Facilities             |

12. Overall, how effective was your educational experience at USMMA in preparing you for your career?

- Very Poor     Poor     Good     Excellent

13. How many years did it take you to graduate from USMMA?

- 4 Years     5 Year     6 Years     Other: \_\_\_\_\_

14. When did you pass your U.S. Coast Guard 3<sup>rd</sup> Engineer license?

- Prior to graduation on the first attempt
- Prior to graduation but not on the first attempt
- Less than a month after graduation
- More than a month after graduation

### Departmental Assessment (ENGINEERING)

15. In terms of your education, how well were these objectives achieved?

**(1 = Very poor, 2 = Poor, 3 = Good, 4 = Excellent)**

- |         |       |  |
|---------|-------|--|
| 1 2 3 4 | (I)   | To serve as licensed engineering officer in the United States Merchant Marine, with the ability to advance to Chief Engineer   |
| 1 2 3 4 | (II)  | To serve in a variety of professional engineering positions in the maritime-related shore side industry, with the capability to rise to senior positions                                       |
| 1 2 3 4 | (III) | To have particular skills in the analysis and design of marine propulsion, auxiliary and cargo systems and equipment, preparing them to apply these skills to a variety of marine applications |
| 1 2 3 4 | (IV)  | To pursue graduate study in engineering and/or become licensed as a Professional Engineer, should they so choose.  |

16. The second Program Educational Objective is to provide an engineering education that prepares graduates for a responsible position in maritime-related shore side company:
- I. Have you worked in a position at a shore side company that has been involved with maritime systems and components?
 

Yes, for how long \_\_\_\_\_  No
  - II. If you have worked in any of these positions, what was the title of the most responsible position you have held? Title \_\_\_\_\_
17. The third Program Educational Objective is to prepare graduates for work in positions that require skills in the analysis and design of marine propulsion, auxiliary and cargo systems equipment.
- I. Have you worked in positions that have been involved with analysis and design of marine propulsion equipment?
 

Yes, for how long \_\_\_\_\_  No
  - II. Have you worked in positions that have been involved in the analysis and design of auxiliary systems and equipment?
 

Yes, for how long \_\_\_\_\_  No
  - III. Have you worked in positions that have been involved in the analysis and design of cargo systems and equipment?
 

Yes, for how long \_\_\_\_\_  No
18. The fourth Program Educational Objective is to prepare graduates for graduate work and/or for becoming a licensed professional engineer.
- I. Have you pursued graduate study?
 

Yes, what is the highest degree earned \_\_\_\_\_  No
  - II. Have you taken the Fundamentals of Engineering Exam?
 

Yes, and passed       Yes, but did not pass       No
  - III. If you took the Fundamentals of Engineering exam, when did you take it?
 

1st Class year       Within 5 years of graduation       5 to 10 years after graduation
  - IV. Have you taken the Professional Engineer's Exam (Principles & Practices)?
 

Yes, and passed       Yes, but did not pass       No
  - V. If you took the PE Exam, when did you take it?
 

Within 5 years of graduation       5 to 10 years after graduation

VI. If you passed the PE exam, in what discipline are you licensed? \_\_\_\_\_  
 In which state are you licensed? \_\_\_\_\_

19. In terms of your education, how well were these outcomes achieved?  
**(1 = Very poor, 2 = Poor, 3 = Good, 4 = Excellent)**

- |   |   |   |   |     |  |
|---|---|---|---|-----|--|
| 1 | 2 | 3 | 4 | (a) | Ability to apply knowledge of mathematics, science, and engineering  |
| 1 | 2 | 3 | 4 | (b) | Ability to design and conduct experiments, as well as to analyze and interpret data                            |
| 1 | 2 | 3 | 4 | (c) | Ability to design a system, component, or process to meet desired needs  |
| 1 | 2 | 3 | 4 | (d) | Ability to function on multi-disciplinary teams  |
| 1 | 2 | 3 | 4 | (e) | Ability to identify, formulate, and solve engineering problems   |
| 1 | 2 | 3 | 4 | (f) | An understanding of professional and ethical responsibility  |
| 1 | 2 | 3 | 4 | (g) | Ability to communicate effectively   |
| 1 | 2 | 3 | 4 | (h) | The broad education necessary to understand the impact of engineering solutions in global and societal context |
| 1 | 2 | 3 | 4 | (i) | A recognition of the need for, and ability to engage in life-long learning                                     |
| 1 | 2 | 3 | 4 | (j) | A knowledge of contemporary issues   |
| 1 | 2 | 3 | 4 | (k) | Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice         |
| 1 | 2 | 3 | 4 | (l) | Ability to apply probability and statistical methods to naval architecture and marine engineering problems     |
| 1 | 2 | 3 | 4 | (m) | A basic knowledge of engineering mechanics and thermodynamics in the context of marine vehicles                |
| 1 | 2 | 3 | 4 | (n) | A familiarity of instrumentation appropriate to naval architecture and/or marine engineering                   |



20. Considering your experience since graduation, what courses or experiences did you find to be the most valuable in our curriculum?

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21. What skills or areas of knowledge do you feel were missing from your educational experience, or should have been covered more extensively?

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**Program (Major) Assessment (MARINE ENGINEERING SYSTEMS)**

22. Have you served as a licensed officer in the Merchant Marine?

Yes, for how many years \_\_\_\_\_  No

23. If you have served as a licensed officer in the Merchant Marine, have you advanced to higher level officer position?

Yes  No  If Yes, to what level \_\_\_\_\_

24. Are you currently employed in a sailing position?

Yes, for how many years \_\_\_\_\_  No

25. Are you currently employed in a non-sailing position?

Yes  No

26. Looking back, would you choose the same major at USMMA?

Yes  No, what major would you have chosen? \_\_\_\_\_

27. General comments about the MES Program:

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28. Perceived strengths of the MES program:

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29. Program weakness/es and suggestions for improvement:

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