

# From Estuaries to the Deep Sea - Summer 2025 Internship Application

Oregon State University's Hatfield Marine Science Center – Newport, OR - Research Experience for Undergraduates Program: From Estuaries to the Deep Sea...

For more information please contact Itchung Cheung, Program Director - [hmsc\\_academic@oregonstate.edu](mailto:hmsc_academic@oregonstate.edu)

Initial review of applications begin February 17, 2025 until all positions are filled.

\* Indicates required question

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1. Email \*

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## PERSONAL INFORMATION

2. Last Name: \*

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3. First Name: \*

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4. Middle Initial:

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5. Current Address (Street Address or P.O. Box, Apartment #, etc.): \*

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6. Current City: \*

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7. Current State: \*

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8. Current Postal/Zip: \*

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9. Current until (Date): \*

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*Example: January 7, 2019*

10. Primary Telephone (###-###-####): \*

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11. Secondary Telephone (###-###-####): \*

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12. Primary Email Address: \*

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13. Secondary Email Address: \*

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14. Permanent Address (Street Address or P.O. Box, Apartment #, etc.): \*

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15. Permanent City: \*

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16. Permanent State: \*

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17. Permanent Postal/Zip: \*

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18. Date of Birth: \*

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*Example: January 7, 2019*

19. Citizenship (Only U.S. citizens & permanent residents are eligible for NSF supported funds) \*

*Check all that apply.*

U.S.

Permanent Resident

Other: \_\_\_\_\_

## DEMOGRAPHIC INFORMATION

The National Science Foundation encourages participation in REU programs from underrepresented groups, and seeks to measure how effectively it is reaching diverse student populations.

20. I identify my gender as (fill in the blank) \*

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21. Please indicate what pronouns you identify as: \*

*Mark only one oval.*

- they/them
- she/her
- he/him
- ze/hir
- xe/xir
- fae/faer
- ey/em
- other
- I prefer not to answer

22. Disability (please describe as the program has supported previous students with all available university resources).

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23. Traditionally Underrepresented Groups in Geosciences (check all that apply): \*

*Check all that apply.*

- African American
- Native American
- Hispanic/Latino
- Asian American
- Native Pacific Islander
- White/Caucasian
- U.S. Veteran
- Other: \_\_\_\_\_

24. First-generation college student (neither parent has earned a Bachelor's degree): \*

*Mark only one oval.*

Yes

No


## EDUCATION

Transcripts are not needed at this time. Applicants who are accepted into the program will be required to provide transcripts for verification.

25. Institution Where Currently Enrolled: \*

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26. Does your institution have a PhD program in STEM? \*


 Dropdown

*Mark only one oval.*

Yes

No

27. Is your institution considered a small liberal arts college? \*

 Dropdown

*Mark only one oval.*

Yes

No

28. Current Class Status (Note: Seniors graduating in Spring/Summer 2024 are ineligible): \*

*Mark only one oval.*

- Freshman
- Sophomore
- Junior
- Continuing Senior in Fall 2025

29. Current or transferring Community College student? \*

*Check all that apply.*

- Current
- Transferring
- N/A

30. Major(s) and Minor(s): \*

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31. Overall GPA: \*

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32. GPA in Major: \*

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33. Were you previously enrolled in any other colleges/universities? If so, where and when?  
List Institution(s) and Dates Attended:

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34. List science coursework completed (biology, chemistry, physics series, earth science, \*  
etc.), mathematics, and/or technology fields (such as computer sciences) below.  
Course No. and Title, Grade, Course Credit:

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35. List any additional relevant courses (not listed above) planned for completion by the \*  
beginning of summer 2025. Course No. and Title, Course Credit:

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### STATEMENT OF INTEREST

Please share with us a little bit about yourself in the questions below. Responses should be 200-400 words per question.

36. INTEREST IN MARINE AND ESTUARINE SCIENCES: Describe the areas of research in marine and estuarine sciences that interest you most, your personal goals for the internship, and indicate your preference for working in office, lab, or field settings. \*

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37. CAREER GOALS AND THIS REU PROGRAM: Write about what your career goals are and how participating in this OSU Hatfield Marine Science Center REU program, From Estuaries to the Deep Sea will help you meet these goals. \*

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38. THE UNIQUE YOU: What unique qualities and characteristics will you bring to our program? \*

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39. PERSONAL CHALLENGES/ADVERSITY: Describe how you have overcome or dealt with a challenge or adversity in your life. This can be either a specific situation or a broader issue. \*

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40. INCREASING DIVERSITY IN STEM: This program is dedicated to enhancing the diversity of future scientific communities and sharing our science with a broader audience. Please describe how you, based on your personal background and life experiences (including social, cultural, familial, educational, or other opportunities or challenges) will contribute to this mission during and after participating in this REU. \*

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41. In response to the pandemic, this 10-week program developed a pathway for students to complete a summer REU experience through a mix of onsite, hybrid and online research methods. Please provide your order of preference below.

*Check all that apply.*

|  | Strongly prefer          | Prefer                   | Not interested           | No preference            |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>Entirely Onsite</b>                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Hybrid (mix of onsite and remote)</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Entirely Remote</b>                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

## RESEARCH INTERESTS AND MENTOR MATCH

Please study the areas of research and associated faculty with the Hatfield Marine Science Center. Information of each mentor and lab can be found here:

<https://hmsc.oregonstate.edu/research-experience-undergraduates>

## RESEARCH AREAS OF INTEREST

Please rank your first 4 choices (1-4 in order of preference) or choose up to 4 areas of interest (use X instead of a number). Your choices will be used to match your interests with a potential mentor's interest:

**Marine & Estuarine Ecology** - Study of marine-life habitat, populations, and interactions among organisms and the surrounding environment including their abiotic (non-living physical and chemical factors that affect the ability of organisms to survive and reproduce) and biotic factors (living things or the materials that directly or indirectly affect an organism in its environment).

**Fisheries Science** - Science-based conservation and management for sustainable fisheries and aquaculture, marine mammals, endangered species, and their habitats.

**Molecular Biology and Genetics** - Using advanced molecular biology techniques to answer a variety of relevant evolutionary and ecological questions.

**Oceanography** - study of properties of ocean waters.

**Marine/Ocean Engineering** - engineering of marine vessels, structures and equipment.

**Marine data science** - uncovering findings from marine data such as oceanographical data collected using both in situ methods and remote sensing.

42. Please rank your choices of research areas: \*

Mark only one oval per row.

|                                       | 1                     | 2                     | 3                     | 4                     | X                     | Not Interested        |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <b>Marine &amp; Estuarine Ecology</b> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| <b>Fisheries Science</b>              | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| <b>Molecular Biology and Genetics</b> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| <b>Oceanography</b>                   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| <b>Marine/Ocean Engineering</b>       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| <b>Marine data science</b>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

#### MENTOR SELECTION/MATCH

Please review the areas of research and current list of associated Hatfield Marine Science Center faculty accepting summer REU interns. Indicate your top REU Mentor choices. <http://hmsc.oregonstate.edu/reu-mentors>

43. Mentor #1 Name (Last Name, First Name): \*

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44. Mentor #1 Comments:

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45. Mentor #2 Name (Last Name, First Name): \*

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46. Mentor #2 Comments:

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47. Mentor #3 Name (Last Name, First Name): \*

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48. Mentor #3 Comments:

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49. What professional goals do you hope to achieve by working with the above listed faculty? Please explain why you are interested in the areas of research chosen above? \*

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50. Have you ever participated in any kind of scientific research? \*

*Mark only one oval.*

Yes

No

51. If not, please briefly explain any past experiences, specialized skills, and or courses that you considered most valuable in preparing you for a research internship, and explain why. If yes, please explain. \*

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### EXTRACURRICULAR INFORMATION

We are looking for student applicants with a range of interests and experiences in and out of academia.

52. Please list school activities, clubs or programs you have participated in, including offices held and academic honors earned (Ex: Marine Technology Society, Biology club, organizations or clubs, scholarships, etc.). Also list non-school clubs, activities, programs or conferences in which you have participated (Ex: Intramural sports, student or community groups/organizations, leadership retreat, service or education work, etc.). \*

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### Reference Contacts

Please provide reference names and contact information for professors, advisors, or other person in an academic or professional position that can speak to your academic abilities, accomplishments and motivations, work habits and potential success in the program.

53. Reference #1 Name, Title and/or Institution: \*

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54. Reference #1 Email: \*

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55. Reference #1 Telephone: \*

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56. Reference #2 Name, Title and/or Institution: \*

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57. Reference #2 Email: \*

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58. Reference #2 Telephone: \*

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59. Reference #3 Name, Title and/or Institution: \*

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60. Reference #3 Email: \*

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61. Reference #3 Telephone: \*

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## RECRUITMENT INFORMATION

Understanding how you learned about our National Science Foundation (NSF) REU program, will help us understand what types of services and resources support students to access internships and funding that pave the path to rewarding STEM careers.

62. How did you learn about the summer REU intern program at Oregon State University? \*

*Check all that apply.*

- Flyer
- Former REU intern
- NSF REU Website
- OSU Website
- Pathways to Science Website
- Professor/Advisor
- Scientific Meeting or Conference
- Instagram
- Facebook
- Other social media
- Other: \_\_\_\_\_

63. Previously applied to the OSU HMSC REU program, From Estuaries to the Deep Sea? \*

*Mark only one oval.*

- Yes
- No

64. Participated in another NSF funded REU program? \*

*Mark only one oval.*

- Yes
- No

65. If yes, you have participated in another REU program, please list the program name, institution, program contact and NSF Grant Number: \*

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66. Are you applying for other internships this summer? \*

Mark only one oval.

Yes

No

67. If yes, you are applying for other internships this summer, please list internship programs below: \*

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68. Anything else you'd like to share with our selection committee about you and your application for this program?

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69. Today's Date \*

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*Example: January 7, 2019*