Next Up

Marine Advanced Technology Education – Maria Osiadacz
(remote presenter)
UNOLS-MATE At-Sea Technical Internship Program

Funded by the National Science Foundation
current OCE AWARD 1757373

Maria Osiadacz
Internship Coordinator

Marine Advanced Technology Education (MATE) Center
University-National Oceanographic Laboratory System
Program Overview & Updates

- MATE Internship Program started with a NSF/UNOLS grant in 1999
- Help meet demand for multi-skilled marine technicians
- Provide opportunities for mentoring/training by marine technicians working on science missions aboard research vessels
- Program transferring to UNOLS office (pending funding approval) in 2023
- Thank you & congratulations to Deidre Sullivan on her retirement!!
MATE Interns 1999 to 2022

• Demographic data of former interns
• Data collected for 328 interns at-sea and land-based

<table>
<thead>
<tr>
<th>Demographics</th>
<th>Total responses*</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community College Students</td>
<td>171 out of 328 responses</td>
<td>52.1%</td>
</tr>
<tr>
<td>Female students</td>
<td>159 out of 328 responses</td>
<td>48.5%</td>
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<tr>
<td>Students from underrepresented groups</td>
<td>80 out of 301 responses</td>
<td>26.6%</td>
</tr>
<tr>
<td>Financially disadvantaged students **</td>
<td>119 out of 171 responses</td>
<td>69.6%</td>
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</tbody>
</table>

* Based on completed surveys; omitted if declined to respond
** Financial status collected since 2008

• Starting with 2023 program: recruit ≥30% from underrepresented groups
MATE Interns 1999 to 2022

- Updating employment status of former interns
- More active tracking since 2008
  ○ Email, surveys, LinkedIn, networking

<table>
<thead>
<tr>
<th></th>
<th>Total Responses: 87</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Technician or closely related job *</td>
<td>48 responses</td>
<td>55.1%</td>
</tr>
<tr>
<td>UNOLS Fleet **</td>
<td>31 responses</td>
<td>35.6%</td>
</tr>
<tr>
<td>STEM related position</td>
<td>85 responses</td>
<td>97.7%</td>
</tr>
</tbody>
</table>

* Working on marine vessel or institution supporting oceanographic research
** Including tech pool or other temporary work, visiting student, or prior job

- Results similar to 2017 survey with 91 respondents
  ○ over 90% were employed in a STEM-related field
  ○ over 50% held positions in marine technology or closely-related ship-based job
Miguel Sanchez

Hosted by the University of Alaska Fairbanks on the R/V Sikulialaq (8 weeks)
Mentor: Ethan Roth, Science Operations Manager
Naval Architecture and Marine Engineering, Webb Institute
Tyler Peterson

Hosted by WHOI on the R/V Armstrong (6 weeks)
Mentors: Marine Technicians Emily Cheung and Croy Carlin
UNOLS Tech Pool, USCGC Healy as Marine Technician, joining OSU
Jackson Hollocker

Hosted by the University of Delaware (5 weeks)
Mentors: Christian Kernisan and other crew on R/V Hugh Sharp
Marine Technology at Northwestern Michigan College
Daniel Brunet

Hosted by the University of Delaware (5 weeks)
Mentors: Christian Kernisan and other crew on R/V Hugh Sharp
Marine Biology at University of Alaska Southeast
Sarah Sergent

Hosted by NDSF Lab, WHOI (6 weeks)
Mentors: Matt Heintz and the Jason Team on R/V Thompson
Marine Technology at Northwestern Michigan College
Syenna Graham

Hosted by NDSF Lab, WHOI on R/V Thompson (9 weeks)
Mentors: Sean Kelley and the Sentry Team with Judy Fenwick
Aerospace and Ocean Engineering, Virginia Polytechnic State University
Kyle Hebert

Hosted by RSMAS, UMiami, R/V Walton Smith (15 weeks)
Mentors: Don Cucchiara, Denis Ilias, Jonathan Raymond and other crew hired by WHOI, Communications Electronics Technician, R/V Atlantis
Alesha Gregoire

Hosted by RSMAS, UMiami, R/V Walton Smith (16 weeks)
Mentors: Don Cucchiara, Denis Ilias, Jonathan Raymond and other crew hired by RSMAS, Ship’s Mate, R/V Walton Smith
Anastasia Elmendorf

Hosted by WHOI on the R/V Armstrong (8 weeks)
Mentors: Emily Cheung and other Marine Technicians
Currently on board, transit from Greenland to Woods Hole
What the community gains

Hosts/Mentors:
• Extra help on board, enthusiastic, eager to learn
• Direct involvement training next generation of marine technicians
• Preview of best graduates from marine technology programs for hiring!
• UNOLS Fleet uses Internship Program to recruit new talent

Interns:
• Job experience essential for employment, often the most important step; with best role models
• Better understand the diversity of ocean careers
• Hands-on experience with cutting-edge technologies not available at educational institutions
Intern selection process

• Consider hosting interns in 2023

• Complete online host form

• Candidates carefully matched to host’s requirements
  • Summer internships - host receives application responses of 3-5 applicants that best match mission needs
  • Long-term internship – MATE/UNOLS review applicants, determine top finalists and provide host for selection

• Host encouraged to interview candidates

• Host makes final selection

• MATE checks references, makes offer, handles travel logistics

• After – please complete post-internship host surveys

• Continue to use internship to promote marine technical careers

• You are great mentors and role models - THANK YOU!
Thank you! Any Questions?

For more information visit:  
www.marinetech.org/internships

Online host survey available  
2023 MATE Internship Program Host Survey

Contact:  
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