UNOLS-MATE At-Sea Technical Internship Program

Funded by the National Science Foundation current OCE AWARD 1757373

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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!!
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
MATE Interns 1999 to 2022

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

<table>
<thead>
<tr>
<th>Category</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>
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* Based on completed surveys; omitted if declined to respond
** Financial status collected since 2008

- Met program goals, committed to improving numbers moving forward
MATE Interns 1999 to 2022

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

<table>
<thead>
<tr>
<th>Position</th>
<th>Total Responses</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>
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</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 Sikuliaq (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, joining OSU as Marine Technician
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 onboard, transit Greenland to Woods Hole, joining several cruises
Moving forward…

- Planning full year of internships in 2023 with placements in Spring, Summer and Fall
  - 1 long-term (approximately 6 months) and
  - 12-14 short-term internships depending on the length (approx 4-16 weeks each)
- Announcement listing requirements and link to application is posted, in distribution
- Application due date: January 22, 2023
- Please contact me to find out more about the process!
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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