Innovative Approaches to Undergraduate Training in Integrative Ecosystem Biology

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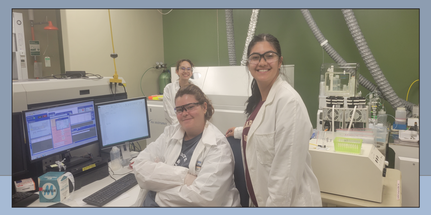




- Program is evaluated each year to build resiliency and fine tune to student and mentor needs.
- Both REU participants and Mentors participate post-programming survey.



- Students present drafts of their research at the Summer STEM Research Symposium at UNH.
- Students submit abstracts to attend the AGU Fall Meeting ('22, '23)





- AGU Fall Meeting '21, '22, '23
- SACNAS National Diversity in STEM Conference '22, '23
- Sharing materials with network of Minority Serving Institutions
- Earth Sciences Jobs E-mail List
- Twitter/Bluesky

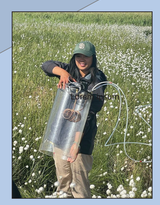


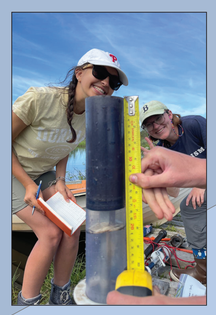


- 6-member committee
- No transcript requirement
- Selection criteria based on essay response:
  - Relevant coursework to date
  - Leadership/ teamwork experience
  - Ability to define and incorporate principles of diversity, equity, justice and inclusion (DEJI)
  - Alignment of research interests with EMERGE science questions

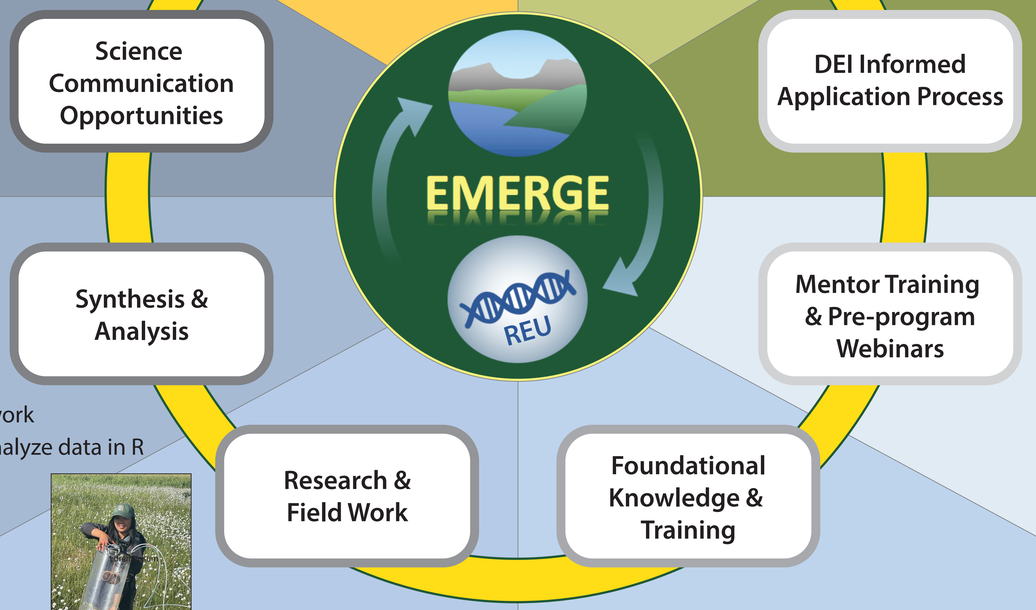


- Final 2 weeks at UNH
- Conduct remaining laboratory work
- Work with mentoring team to analyze data in R
- Work on interpreting findings





- 5-weeks at Abisko, Sweden in Arctic field site
- Study Site: Stordalen Mire, well established record of research in climate change
- Student projects revolve around ecosystem response to change
  - E.g. Microbiology, Hydrology, Remote Sensing, Carbon Cycling, Plant Phenology
- Students learn about problem solving, field sampling protocols, experimental design
- Develop resiliency and build confidence



- ~2-3 months prior to in-person programming
- Mentors sign agreement of mentor roles and responsibilities
- UNH Mentorship Academy Training
- Mentors discuss projects and meet students at pre-program webinars
- Students paired to project topics and associated mentoring teams and co-develop collaborative agreement
- Students receive information and guidance on how to prepare for the summer



- 2-weeks at University of New Hampshire
- Develop Cohort Cohesion
- Field Safety Handbook/Community Agreement with Dr. Sophie Burke
- Wilderness First Aid (16-hour cert)
- FISST training/Bystander training
- Foundational science lectures (Summer Program)
- Science of Team Science with (Summer Program)
- Lab safety training
- Co-develop field and project plan with mentor team



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