NSF Awards
# 14461372; # 0923799; #749365

2006 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM) winner

Teresa Mourad
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Ecological Society of America
Strategies for Ecology Education, Diversity and Sustainability (SEEDS)

Mission

To diversify and advance the ecology profession through opportunities that stimulate and nurture the interest of underrepresented students to participate, and to lead in ecology.
Success in STEM pathways

Or experiences that might have made a difference if they were available in high school
Success in STEM

- Hands-on field experience
Partnerships with Biological stations to offer field experiences: half-day; weekend; summer
Success in STEM

- Exposure to scientists in a wide range of careers in research, policy, education, communications across public, private, and nonprofit sectors
• How can scientific societies support Middle and High School Career Counselors?
SEEDS: Factors of Success

- COMMUNITY
- SELF-CONFIDENCE
- SAFE SPACES

.......... *Through Mentoring*
Success in STEM

- Multiple layers of Mentoring
  - Professional
  - Near peer
  - Peer
- Nurturing philosophy
Partnership: high schools, college and scientific societies

- Virtual mentoring – connect student research teams with scientists
Acknowledgments

Fred Abbott-Torres, Diversity Programs Coordinator, ESA
Mark Brunson co-PI, Utah State University
Julie Reynolds, co-PI, Duke University
Catrina Adams, Botanical Society of America
Betsy Desy, Southwest Minnesota State University
Factors for Success

- Authentic Research Experiences
- Early exposure to **wide range** of STEM careers
- Multiple layers of Mentoring over time
  - in person or virtual
  - Individual or team based

Partnerships: scientific societies can help

- Connect to Research Sites
- Connect with MS and HS career counselors
- Mentoring programs that connect students with scientists

Learn more about SEEDS

www.esa.org/seeds