

Mentoring and Research Infrastructure

Verleen McSween, PhD. Research Co- Lead

BUILDING THE PRE- AND IN- SERVICE STEM WORKFORCE

To support student/ faculty research infrastructure via support for pre- and in-service STEM workforce, with the goal to:

- Increase STEM career interest
- Increase STEM workforce skills
- Increase STEM degree and career retention





BUILDING THE PRE- AND IN- SERVICE STEM WORKFORCE

MENTORING:

To develop mechanisms of support and development for **STEM** students (undergraduate and graduate) for career skill development, research productivity, and retention.

RESEARCH INFRASTRUCTURE:

To develop mechanisms of support and development for **early-career STEM faculty** for career skill development, research productivity, and retention.





ENHANCING THE MENTORING CULTURE @ UVI



Support the professional training of faculty mentors and organize annual mentor training workshops at UVI





Promote the use of

- Undergraduate Individual Development Plans (IDP)
- Graduate Student **Professional Development Plans** (PDP)

Promoting goal orientation and STEM academic resilience (Garibay, 2018) Supporting development of non-cognitive skills associated with academic success (Ayree, 2017)





About V Training Services V Curricula V For Facilitators V Assessment Platform V Research V

SEARCH



CIMER: Providing resources for organizations and institutions to improve research mentoring relationships

Effective research mentoring relationships are critical to developing the next generation of researchers. Learn how to improve these relationships at all career stages and promote cultural change that values excellence in research mentoring as a critical aspect of diversifying the research workforce.

Who We Are

What We Do

News



CAREER GOALS

71. What are your short term goals and how do you plan achieve them?

72. What are your long term goals and how do you plan achieve them?

73. Have you networked with anyone from different institutions who have helped you with your career goal?

EDUCATIONAL/TRAINING GOALS

74. What are some of the skills or goals you would like to develop at the University of the Virgin Islands?

75. What are the strategies towards reaching your skills/goals?



Enhancing the **Mentoring** Culture @UVI

Assessment Areas Research Skills Computer Skills Communication Skills Time Management Skills Leadership Skills

Piloted in Summer 2021
3 faculty mentors
24 student mentees
participated in workshop



ENHANCING THE MENTORING CULTURE @ UVI



Design and implementation of an undergraduate practicum program to promote exposure to R2R research and the use of STEM skills within an education context (First placement in Spring 2022)

Establish an Integrative Student Support Network and annual stakeholder meeting to promote STEM student retention

 Establishing a network of stakeholders for student success to support STEM student retention and matriculation



ENHANCING THE MENTORING CULTURE @ UVI

Undergraduate Student Practicum

Working with VI-ISERP Teacher and R2R Researchers

 Developing spaces for student use of critical STEM skills in a formal learning environment

RESEARC

Exposure to STEM professionals to boost science identity

Bolster student STEM identity through teaching/sharing
 STEM concepts with 6-12th grade students

It Takes a Village: Student Support Network













PARTNERS FOR STUDENT SUCCESS

CENTER FOR STUDENT SUCCESS AND ADVISEMENT

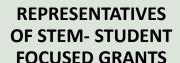
LEARNING SUPPORT FACULTY

STEM/R2R **FACULTY**

STUDENT MENTEES

DEPARTMENT OF LABOR







EARLY CAREER SCIENTIST PROGRAM

Enhancing the **Mentoring** Culture @UVI











ENHANCING RESEARCH INFRASTRUCTURE @ UVI

Support of Early Career STEM Workforce:

Development of graduate and early-career listserv groups: Online communities for dissemination of opportunities, training, and structures of support

Support of Educational Research among Early Career STEM Faculty **through mini- grant awards of \$2000**.







BOOSTING SCHOLARLY PRODUCTIVITY @ UVI

Support of Early Career STEM Faculty:

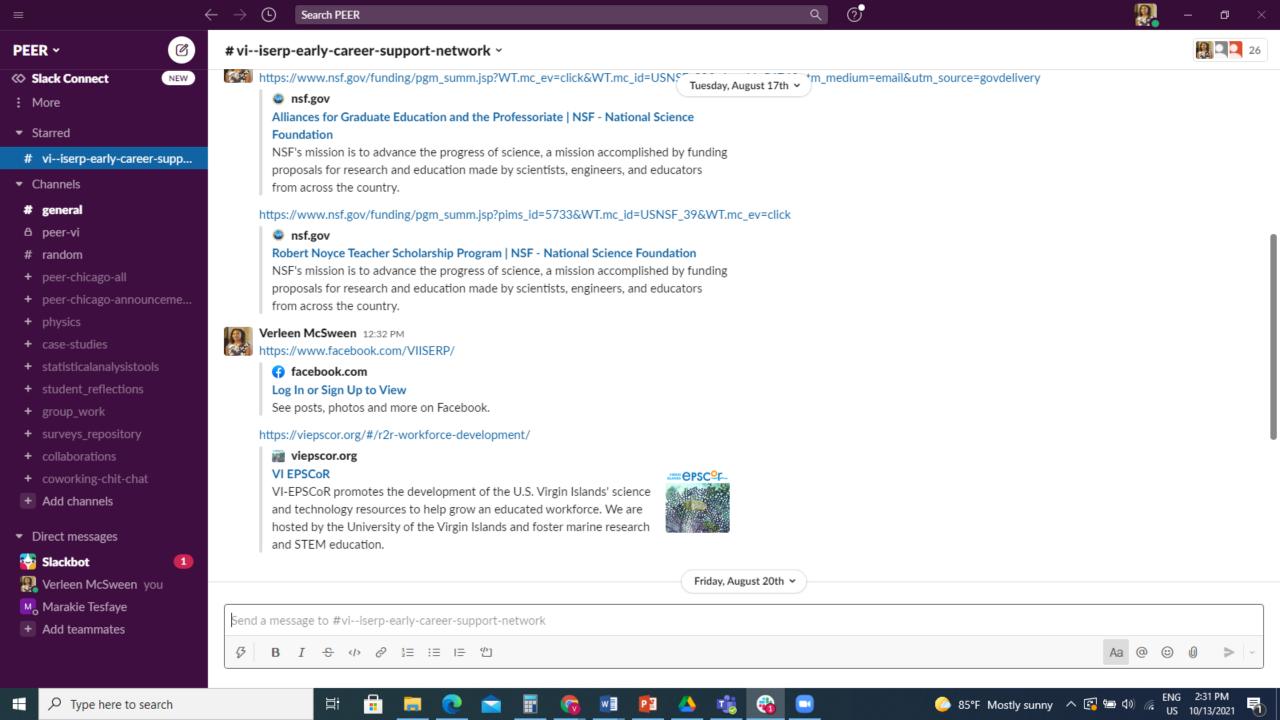
Networking/ Scholarly Productivity Opportunities
Voices of Women in STEM (VOWS) Writing Group
(Summer 2021) through JSU subcontract

Professional Training in Education Research

Professional development for Emerging Education Researchers with Rochester Technical Institute

PEER- UVI





Contact Information

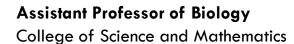
THANK YOU FOR THE OPPORTUNITY TO SHARE.







Verleen McSween, PhD.



Researcher Co- Lead for Mentoring and Research Infrastructure

Virgin Islands Institute for STEM Education Research and Practice (VI- ISERP)
The Virgin Islands Experimental Program to Stimulate Competitive Research (VI- EPSCoR)

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The Virgin Islands Experimental Program to Stimulate Competitive Research (VI- EPSCoR)

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