



2021 Virtual HBCU-UP/CREST PI-PD Meeting



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# NSF HBCU-UP Broadening Participation Research Project: Virtual STEM Peer Mentorship Program

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This project is supported by the National Science Foundation grant Award No. 1912205

All findings and opinions are those of the authors, not necessarily of the funding agency or AAAS.



# Project Overview

- Collaborative effort between two historically black institutions, University of the District of Columbia (UDC) and Bethune-Cookman University (B-CU), and one public, predominately white institution with a large minority population, University of Memphis (UM).
- Extends a previously funded NSF pilot project (Award #1717082)
- Expands the development, implementation, and evaluation of a virtual science, technology, engineering, and math (STEM) virtual peer mentorship program for underrepresented minority women (UMW) undergraduate students.

The goal is to examine the efficacy of a Virtual Peer Mentoring Program to assist UMW students in developing mentorship and leadership skills that are culturally responsive; STEM self-efficacy; science identities; and, ultimately to promote their STEM degree and career persistence. The overarching goal is to broaden the participation of UMW in STEM fields.



# Project Overview

- Project Goals:
- Broaden participation of UMW in STEM fields
  - Assist UMW students in developing:
    - Mentorship and leadership skills that are culturally responsive
    - STEM self-efficacy
    - Science identities
    - STEM degree and career persistence.



# Project Overview



## Phase I (current)

- 38 UMW or racial minority students currently recruited from UDC and B-CU
  - Required to be enrolled in a STEM degree program
  - Minimum gpa of 2.8
  - Woman, racial or ethnic minority
- Each assigned a role as mentor or mentee
- Based on assignment, required to complete case-based virtual training modules
- Modules socialize the mentors and mentees to the mentoring relationship as well as build skills in leadership, mentoring, and cultural responsiveness.
- Participation in Slack communities



# Project Overview

## Phase II (Spring 2021)

- Self-efficacy, identity, and STEM degree and career persistence will be promoted through a one-semester standardized, virtual mentoring relationship process.
  - Communities meet 2-4 times per month
- eSTEM Webinars
  - November
  - January
  - March



The poster is for an eSTEM Lecture Series event. It features the eSTEM logo (a computer monitor with a checkmark) and the text "eSTEM LECTURE SERIES". Below the logo is the tagline "ENSURING EQUITY IN STEM". The main title of the event is "HOW WOMEN & WOMEN OF COLOR CONTINUE TO SHOW UP IN STEM". A photo of Dr. Brandy Huderson is included. The text describes the event as an interactive virtual event where Dr. Huderson will focus on the accomplishments of women and racial minority women in STEM and share tools for continuing the work. The event is scheduled for Wednesday, November 4, from 11:00 AM to 12:30 PM. A QR code is provided for registration, along with the URL <http://bit.ly/eSTEMWebinar>. Contact information for Dr. Jillian Wendt is also provided, along with the NSF logo and the University of the District of Columbia logo.

**eSTEM LECTURE SERIES**

**"HOW WOMEN & WOMEN OF COLOR CONTINUE TO SHOW UP IN STEM"**

Featuring  
Dr. Brandy Huderson,  
PhD

IN THIS INTERACTIVE VIRTUAL EVENT, DR. HUDERSON WILL FOCUS ON THE ACCOMPLISHMENTS OF WOMEN AND RACIAL MINORITY WOMEN IN STEM AND WILL SHARE TOOLS FOR CONTINUING THE WORK THAT HAS BEEN DONE IN STEM BY PREVIOUS GENERATIONS.

**WEDNESDAY, NOVEMBER 4  
11:00AM - 12:30PM**

To register for the webinar:  
<http://bit.ly/eSTEMWebinar>

For more information, contact Dr. Jillian Wendt at [jillian.wendt@udc.edu](mailto:jillian.wendt@udc.edu) or visit [www.estem-equity.com](http://www.estem-equity.com)  
(NSF Award No. 1912205)