

# Harford Community College: Biotechnology

Army Alliance, November 30, 2023

Dr. Pamela Pape-Lindstrom

Interim VP for Academic Affairs

# Biotechnology AAS Degree & Certificate



- AAS degree = 60 credits, Certificate = 32 credits
- National Science Foundation (NSF) grant funded program
- Prepares students for entry-level biological laboratory careers
  - ✓ Foundational biology and chemistry coursework
  - ✓ Emphasis on laboratory techniques
  - ✓ Course-based Undergraduate Research Experiences (CUREs)

Transfer articulation with UMGC

<https://www.harford.edu/academics/credit-programs/programs/biotechnology.php>



UNIVERSITY OF MARYLAND  
GLOBAL CAMPUS



# Biotechnology Pathways NSF Grant

- \$493,913 (Award # 2000193)
- Grant-funded, paid internships for HCC students
- Summer Institute for high school students
- Teaching Academy for high school faculty
- Evening outreach events for high school students and family members
  - Principal Investigator - Associate Professor, Jackie Madden
  - Co-Principal Investigators – Dr. Pamela Pape-Lindstrom, Dr. Susan Walker
  - Senior Personnel – Assistant Professor, Breonna Martin

# Biotechnology Pathways (cont'd)



## First year includes research project

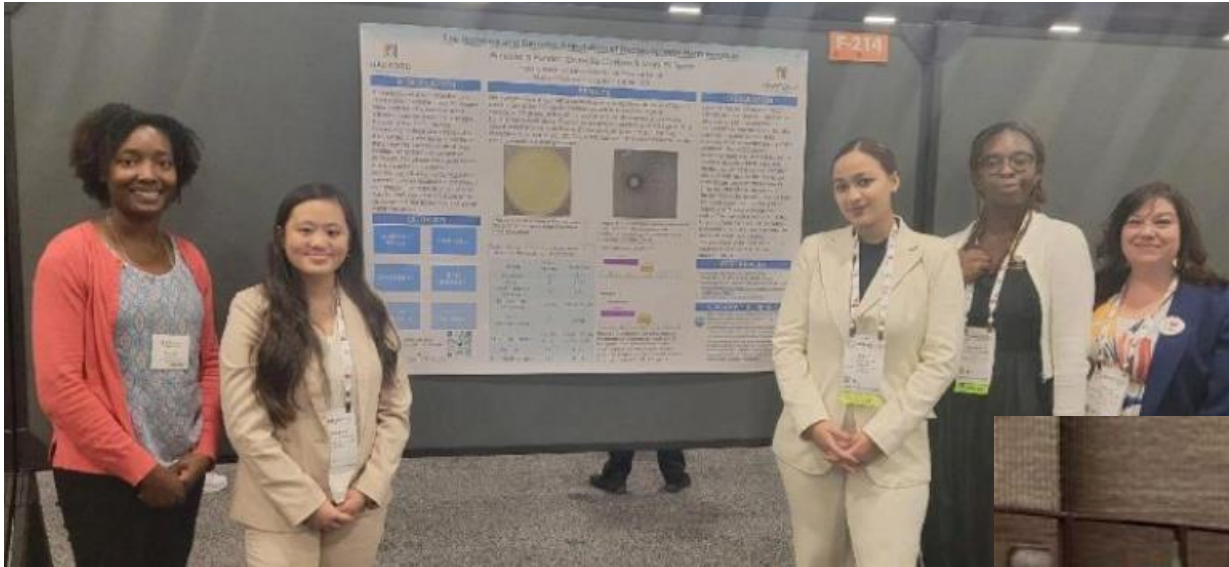
HIMI Science Education Alliance-Phage Hunters  
Advancing Genomics and Evolutionary Science

- Multiple student presentations
- National Academies of Sciences, Engineering and Medicine-June 2023
- Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS)-Nov 2023



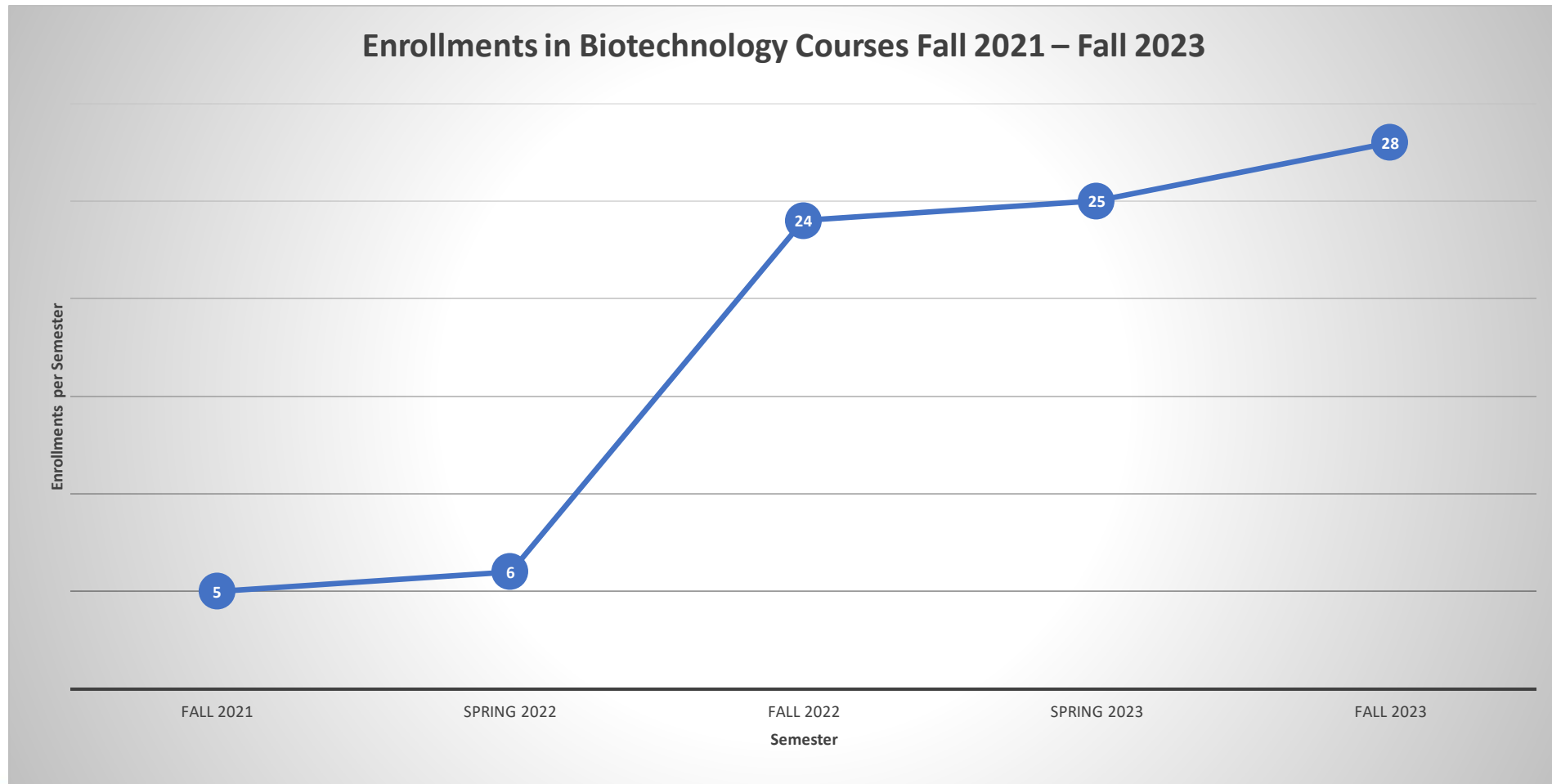
Student Druscilla Darkwa explaining poster  
*Envisioning the Next Bioscience Workforce Summit*  
National Academies of Sciences, Engineering, and Mathematics, Washington  
DC, June 2023

# ABERCMS 2023



**Invest in yourself.**

# Enrollments



# HCC Partnerships

- Educational Partnership Agreement with U.S. Army Combat Capabilities Development Command Chemical Biological Center (DEV COM CBC)
  - Biotech students have paid internships
- Member of National Biotechnology Education Center, InnovATEBIO
  - <https://innovatebio.org/>
- Member of BioMADE
  - <https://www.biomade.org/>



# Micro-credentialing for two-year graduates

- Employers prefer 4-year degrees
- Working with Bioscience Core Skills Institute



**DOCUMENTATION  
AND SOP**

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# Questions?

