

**Project Description**

**Title:** Minority Student Pipeline Math Science Partnership (MSP)

**Lead Partner:** Bowie State University

**Additional Core and Supporting Partners:** Prince George's County Public Schools, University of Maryland College Park (UMCP), University of Maryland Biotechnology Institute (UMB), Prince George's Community College (PGCC)

This project, (MSP), proposes to establish a strong, multi-faceted partnership among the essential P-16 players in one of the longest minority-majority pipelines in the country. Prince George’s County Public Schools, the University of Maryland College Park and University of Maryland Biotechnology Institute support the project through commitment and funding. The goals of the project include:

- Working with approximately 750 teachers over the five years in 4-8th grades in science, math, and social studies.
- Developing student-centered, inclusive science curricula that focuses on the needs of students who have been historically under-represented in STEM.

**Project Challenges**

Current/past challenges:

1. **Linguistic tracking:** students from K-12 are placed in different tracks based on language proficiency, which can hinder their educational progress.
2. **Curriculum alignment:** schools struggle to align their science curriculum with the state standards.

**Indicators of Success**

- Goal 1: Increase the number of minority and other underrepresented students who enter science disciplines
- Goal 2: Improve the ability of science teachers in elementary, middle, and high schools to effectively teach science to underrepresented minority students
- Goal 3: Increase and reward STEM faculty participation in ongoing professional development partnerships with K-12 teachers

**Learning from Other Projects**

- How do other partnerships recruit faculty participants from diverse types of institutions (Research Intensive Universities, Research Institutes, Comprehensive Historically Black Institutions, and Community Colleges)?
- Are there any projects working on the undergraduate STEM major part of the pipeline? If so, how?
- Have other projects looked at the effect of professional development for K-12 teachers on the interest of their students in pursuing STEM careers? If so, what are they doing this?