

National Science Foundation
Louis Stokes Alliance for Minority Participation
The Ohio LSAMP Alliance (Lead: The Ohio State University)

Total: \$260,000 (Total OSU Award: \$4,500,000)

Project Period: 08/01/2018 to 07/31/2023

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Project Overview

The Ohio LSAMP Alliance received funding for the first time in September 2013. It is, therefore, applying for the STEM Pathways Implementation-Only Alliance Project. The ten public institutions that make up The Ohio LSAMP Alliance are diverse and include four community colleges and 6 four-year institutions (including one HBCU): Central State University, Cincinnati State Technical and Community College, Cleveland State University, Columbus State Community College, Cuyahoga Community College, Miami University, Sinclair Community College, The Ohio State University, University of Cincinnati, and Wright State University. Each of the four community colleges is located in the same city as a four-year institution of the alliance, and a major emphasis of this alliance is to produce viable community college pathways to STEM degrees for underrepresented minorities (URMs). The goal of this program is to double the number of URM baccalaureate STEM degrees from partner institutions (including community college partners) within five years.

Deliverables:

The following are the objectives of The Ohio LSAMP Alliance:

1. To continue the innovative, evidence-based high-impact practices that have proven to be effective in recruitment and retention of URM STEM students.
2. To strengthen pathways for smooth transitions from community colleges to four-year institutions
3. To initiate innovative interventions that fortify mathematical knowledge, reform mathematics curricula, and prevent mathematics from being a barrier to progression of URM students in STEM
4. To increase access to high quality faculty-mentored research experiences for URM STEM students
5. To prepare URM students for and facilitate their seamless transition into STEM graduate programs
6. To develop and implement an alliance-wide communications plan, including an interactive website, for effective communication and dissemination of information.

The Ohio LSAMP Alliance will increase URM STEM degrees and careers through community college pathways, improved math proficiency, undergraduate research, and high-impact practices. Given that community colleges are enrolling a majority of undergraduates and provide URM students with the predominant pathways to a STEM education today, collaborations that build their capacity to contribute to STEM degrees, undergraduate research, and STEM education are paramount to building a diversified national STEM workforce. Evaluation of strategies for mathematics co-requisite remediation will prevent mathematics from remaining a barrier to URM progression to STEM degrees. URM students will learn from faculty and peer mentors, produce research, and participate in scientific conferences. Data evaluation will contribute to evidence-based best practices in STEM transfer and degree attainment. Data, models, and opportunities in URM STEM pathways will be communicated to a broader audience through publications, participation in national conferences, and online materials that are produced. Successful outcomes will be scaled up to nationwide collaborations and programming and will serve as a catalyst for change, innovation, and resource enhancement throughout the nation.