

MUREP Precollege Summer Institute (PSI) - (MUREP PSI)

Title: PSI for Recruiting and Inclusion for STEM for MSIs (PRISM)

Institution: Alabama A & M University

City/State: Normal, AL

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Summary:

Alabama A&M University (AAMU) proposes to develop and implement a Precollege Summer Institute (PSI) for Recruiting and Inclusion for STEM for MSIs (PRISM) in collaboration with NASA George C. Marshall Space Flight Center. PRISM will be a three-week residential program providing underrepresented, underserved rising eleventh and twelfth grade students with college readiness, STEM engagement, and STEM career awareness. Students will engage in learning activities designed to increase their STEM efficacy and identity, improve college readiness skills, and expose them to STEM careers through authentic learning experiences in NASA MSFC laboratories.

Our collaboration with NASA MSFC will align the AAMU PSI with the Human Exploration Operations (HEO) Mission Directorate and will expose students to STEM majors that prepare students for careers which support the HEO Mission and the Nation's need for a diverse STEM workforce. Students will work with faculty to explore STEM majors in the AAMU College of Engineering, Technology, and Physical Sciences who will provide connections between majors and NASA HEO research and development. The surrounding research and development community in Huntsville, Alabama will also allow students an opportunity to see a vast array of STEM careers supporting NASA and US industry. PRISM will also offer mini courses in writing, mathematics, and study skills to increase college readiness, student success, and retention. Students will also work on group STEM projects guided by STEM faculty.