

1154-97-2242

Mohammed R Karim* (mohammed.karim@aamu.edu), AL, and **Marius P Schamschula, Nesar Ahmed, Linda Skeete McClellan** and **R. Keith Esch**. *The Impact of ASSURE Project on AAMU's STEM Undergraduate Program.*

The Advancing Success in STEM undergraduate Research and Education (ASSURE) was awarded to Alabama A&M University (AAMU) by National Science Foundation (NSF). The goals of the project were to use evidence-based strategies and activities for teaching, retaining and graduating STEM undergraduate students. Four activities were designed and implemented: 1) Professional development workshops for STEM faculty: with a focus on evidence-based instruction, better equipping them as educators and having a positive impact on student's learning outcomes; 2) Peer tutoring through a supplementary instruction (SI): students who participated in SI have passed the courses with better grades than their peers who did not take part; 3) A Calculus Enrichment Program (CEP) for students who needed additional help: the success rate of CEP students in passing Cal I/II with a grade C or better was over 85%; and 4) Student Research Experiences for undergraduate students: not only involved students in research but also increased both the students' enthusiasm for STEM learning and their advancement toward STEM careers and higher education. (Received September 17, 2019)