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)