UNITE Site
Jackson State University
Pre-Engineering Summer Program 2019

A UNITE Funded Program for talented high school students from groups historically underrepresented and underserved in science, technology, engineering and mathematics (STEM)

(UNITE is a program of the Army's Youth Science Cooperative Outreach Agreement (YSCOA), a subset of the Army Educational Outreach Program (AEOP). UNITE is coordinated by the Technology Student Association (TSA))

UNITE @ JSU Site Objectives
1. Effectively show students the real-world applications of math and science
2. Raise student confidence in the ability to participate in engineering activities
3. Inspire students to consider engineering majors in college
4. Remove social barriers and negative attitudes about engineering
5. Promote collaboration and problem-solving in a team environment
6. Increase the number of STEM graduates to fill the projected shortfall of scientists and engineers in national and Department of Defense (DoD) careers

UNITE @ JSU Site Program Highlights
1. 4-week high-quality course instruction consisting of rigorous theory and practice
2. Instruction and hands-on activities on K12 level physical science topics
3. Learn System integration approach
4. Experience Engineering multiple-disciplines immersion such as Electronics, Robotics, App Design, 3D printing; Computational Thinking
5. Experience mentoring with expert university faculty
6. Students will get trained to perform individually and as a team
7. Experience doing presentations, project, and competitions
8. Students will get exposed to career opportunities from Career Service Center, Army personnel, AEOP programs, and TSA activities

Program Schedule
1. Open registration: 03/01/2019; Application Deadline: 05/01/2019
2. Acceptance Notification: May 15, 2019
3. Program Starts: June 03, 2019
4. Program Ends: June 28, 2019

Applicant Selection Criterion
1. Applicant must be a US Citizen or US Permanent Resident
2. Should be a rising 9th grade
3. Qualify as a HBCU underrepresented/underserved in STEM areas
4. Aptitude for Science, Engineering, Math, and Technology
5. Teacher recommendation, GPA of 3.0 or above; or equivalent test scores

Program Delivery
1. Class room instruction, multimedia presentations
2. Hands-on activities
3. Small group environment
4. Attendance: 8.30 am to 1.00 noon, 5 sessions/day; Monday – Fridays

Program Participants Benefits
1. Stipend: $400 for 4 weeks program; no absents
2. No other allowances; breakfast and lunch on their own
3. Free coaching, hands-on activities, experience engineering disciplines

Whom to contact
Department Administration

Program Director: Dr. Francis Tuluri   Shanetta Crisler
Email: francis.tuluri@jsums.edu   shanetta.s.crisler@jsums.edu
Phone: 601 979 8262, x2467; Fax: 601 979 3238   601 979 3913
Mailing Address: Dr. Francis Tuluri
UNITE Program Director, Jackson State University
Department of Technology, P O Box 18480
1400 Lynch Street, Jackson, MS 39217

Application Process and UNITE site Website Information
Applications will be considered on a rolling base from the institution summer programs. Once the application package is received, the project director and the team members will review it. Selected candidates will be informed of their acceptance on May 15, 2019. Applicants will be considered as long as the slots are not filled up. .

UNITE Registration: https://www.usaeop.com/program/unite/
JSU Application packet: http://www.jsums.edu/unite