UNITE Site
Jackson State University
Pre-Engineering Summer Program 2022

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: 03/01/2022; Application Deadline: 05/01/2022
2. Acceptance Notification: May 15, 2022
3. Program Starts: June 01, 2022
4. Program Ends: June 29, 2022

Applicant Selection Criterion

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

Program Delivery

1. Classroom instruction, multimedia presentations
2. Hands-on activities
3. Small group environment
4. Attendance: 8.30 am to 1.00 noon, 5 sessions/day; Monday to Friday

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

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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