



# UNITE Site Jackson State University



## Pre-Engineering Summer Program 2017

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 2017 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

### Program Schedule

1. Open registration: 03/01/2017; Application Deadline: 05/1/2017
2. Acceptance Notification: May 15, 2017
3. Program Starts: June 05, 2017
4. Program Ends: June 30, 2017

### 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

### Whom to contact

Program Director: Dr. Francis Tuluri

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UNITE Program Director, Jackson State University

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### UNITE 2017 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, IT awareness, 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

### Applicant Selection Criterion

1. Applicant must be a US Citizen or US Permanent Resident
2. Should be a rising 10<sup>th</sup> grader
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 Participants Benefits

1. Stipend: \$100/week (6 hours per day, 4 weeks)
2. No other allowances; breakfast and lunch on their own
3. Free coaching, hands-on activities, experience engineering disciplines

### Application Process and UNITE site Website Information

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, 2017. For more information, visit the website

**JSU Registration Packet:** <http://www.jsums.edu/unite>

**AEOP Online Application:**

<http://www.usaeop.com/programs/stem-enrichment-activities/unite/>