

**NATIONAL YOUTH LEADERSHIP FORUM:
ENGINEERING & TECHNOLOGY**

*2016 Sample Schedule**

Day One: Arrival of Scholars and Program Welcome

Campus Tours and Orientation

Success Skills Workshop: Goal Setting 101

Opening Session: Defining Engineering and Technology

Introduction to Project Team and Program

Day Two: The Engineering Design Process

Simulation: Introduction to Capstone Projects

Guest Speaker: Innovation and Entrepreneurship

Guest Speaker: 3-D Modeling

Success Skills Workshop: Scripting Instructions and Taking Direction

Simulation: Introduction to Robotics

Day Three: College Options and Selection

Guest Speaker: Admissions Information Session

College Planning Seminar: Undergraduate Student Panel

Success Skills Workshop: College Options and Selection

Off-campus Excursion: Massachusetts Institute of Technology (MIT) – Campus
Tour and Admissions Information Session

Day Four: Design and Build

Guest Speaker: Careers in Electrical and Electronics Engineering

Success Skills Workshop: Understanding Personalities

Simulation: Capstone Project Development

Lecture: Electronics 101

Helicopter Electronics Workshop: Circuit Design and Programming

Simulation: Hands-On Circuit Building Workshop

**This sample schedule is provided as an example of the overall quality and scope of the experience offered and is not intended to represent a specific schedule for 2016. The 2016 specific schedule, locations, speakers and site visits may be modified.*

Day Five: Engineering Applications

Guest Speaker: Structural Engineering in the 21st Century

Helicopter Electronics Workshop

College and Career Skills Workshop: Public Speaking

Simulation: Structural Engineering Challenge

Offsite Excursion: Boston's Historic Freedom Trail

Day Six: Engineering Project Management

Guest Speaker: Careers in Computer Technology

Workshop: Web and Game Design

College and Career Skills Workshop: Embracing Feedback

Simulation: Capstone Project Development

Day Seven: Engineering the Future

Capstone Project Showcase

Program Summary and Reflection

Lecture: The Power of You

Success Skills Workshop: Defining Personal Vision and Action Plan

Day Eight: Farewell and Departure of Scholars

Closing Session: Program Debrief

Closing Address