

NATIONAL YOUTH LEADERSHIP FORUM: ENGINEERING & TECHNOLOGY

*2017 Sample Schedule**

Day One: Arrival of Scholars and Program Welcome

Campus Tours and Orientation
Success Skills Workshop: Goal Setting
Introduction to Project Team and Program

Day Two: The Engineering Design Process

Simulation: Introduction to Capstone Projects
Keynote Speaker: Defining Engineering and Technology
Workshop: Introduction to 3D Modeling
Success Skills Workshop: Scripting Instructions and Taking Direction
Simulation: Structural Engineering Challenge

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

Success Skills Workshop: Understanding Personalities
Simulation: Capstone Project Development
Lecture: Electronics 101
Simulation: Hands-On Circuit Building Workshop
Speaker Panel: Careers in Engineering and Technology

Day Five: Engineering Applications

Helicopter Electronics Workshop: Circuit Design and Programming
College and Career Skills Workshop: Public Speaking
Workshop: Introduction to Robotics
Offsite Excursion: Boston's Historic Freedom Trail

**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 2017. The 2017 specific schedule, locations, speakers, and site visits may be modified.*

Day Six: Engineering Project Management

Workshop: 3D Printing

Workshop: 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

Closing Celebration Social Event

Day Eight: Farewell and Departure of Scholars

Closing Session: Program Debrief

Closing Address