

**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  
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 2016. The 2016 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