NATIONAL YOUTH LEADERSHIP FORUM: ENGINEERING

2020 Sample Schedule*

**Day One: Arrival of Scholars and Program Welcome**
Campus Tours and Orientation
Program Welcome and Schedule Overview
Introduction of Capstone Impact Challenge and Goal Setting

**Day Two: The Engineering Design Process**
3D Printing Workshop: Rocket Design and Printing
Keynote Speaker: Engineering in the 21st Century
Capstone Impact Challenge Workshops
- *Engineering Design Process*
  - *Defining Project Goals and Brainstorming Solutions*
Building Leadership Presence Workshop Series: Communication, Collaboration, and Time Management

**Day Three: Engineering Applications**
University Admissions Information Session
Helicopter Electronics Workshop: Circuit Design and Programming
Engineering Practical Workshop: Design and Programming
Student Panel and Discussion
Engineering Exploration Lab

**Day Four: Design and Build**
Building Leadership Presence Workshop Series: Ethics in Engineering
Capstone Impact Challenge Workshops
- *Ideating Solutions*
- *Testing Prototypes*
Engineering Exploration Lab

*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 2020. The 2020 specific schedule, locations, speakers, and site visits may be modified.*
Day Five: Engineering Project Management
Capstone Impact Challenge Workshops
   Testing Solutions
Engineering Exploration Lab
Off-Site Excursion: Explore Host Campus and Host City

Day Six: Explore Careers in Engineering
Career Immersion Experience
   Engineering Firm
Capstone Impact Challenge Workshops
   Final Design and Build
   Presentation Preparation Practice and Feedback
Building Leadership Presence Workshop Series: Resume Building and Career Preparation
Engineering Exploration Lab

Day Seven: Engineering the Future
Capstone Impact Challenge Final Presentations and Showcase
Closing Celebration
Finalize Maker Documentary

Day Eight: Farewell and Departure of Scholars
Program Debrief and Closing Address
   Student Assessments and Feedback Sessions
Student Certificate and Photo Distribution
Student Travel and Departure Assistance