

NATIONAL YOUTH LEADERSHIP FORUM: ENGINEERING

*2021 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 2021. The 2021 specific schedule, locations, speakers, and site visits may be modified.*

Due to the coronavirus pandemic, we are in the process of evaluating certain program elements for 2021 to ensure that they meet the most current public health standards and guidance. The safety and security of our students is always our top priority.

Day Five: Engineering Project Management

Capstone Impact Challenge Workshops

Testing Solutions

Engineering Exploration Lab

Off-Site Excursion

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