

NATIONAL YOUTH LEADERSHIP FORUM: ENGINEERING

*2019 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

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: Understanding
Personality Styles

Day Three: Design and Build

Hot Topics Lecture Series: Ethics in Engineering

Building Leadership Presence Workshop Series: Career Compass

Capstone Impact Challenge Workshops

Ideating Solutions

Testing Prototypes

Engineering Exploration Lab

Testing Materials under Stress & Strain

Day Four: Explore Careers in Engineering

Hot Topics Lecture Series: Careers in Engineering

Capstone Impact Challenge Workshops

Testing Solutions

Engineering Exploration Lab

Engineering Professionals at Work

Off-Site Excursion: Explore Host Campus and Host City

**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 2019. The 2019 specific schedule, locations, speakers, and site visits may be modified.*

Day Five: Engineering Applications

University Admissions Information Session

Helicopter Electronics Workshop: Circuit Design and Programming

Surviving E-school: Student Panel and Discussion

Engineering Exploration Lab

Testing Structures

Day Six: Engineering Project Management

Hot Topics Lecture Series: Engineering Health and Wellness

Capstone Impact Challenge Workshops

Final Design and Build

Presentation Preparation Practice and Feedback

Building Leadership Presence Workshop Series: Resume Building

Day Seven: Engineering the Future

Capstone Impact Challenge Final Presentations and Showcase

Student Assessments and Feedback Sessions

Closing Celebration and Project Awards Presentation

Day Eight: Farewell and Departure of Scholars

Program Debrief and Closing Address

Student Certificate and Photo Distribution

Student Travel and Departure Assistance