

NATIONAL YOUTH LEADERSHIP FORUM: ENGINEERING

*2024 Sample Schedule**

Day One: Arrival of Students and Program Welcome

Program Registration

Welcome Activities

Team Time

Day Two: The Engineering Design Process

Introduction to the Engineering Design Process

Engineering Exploration Lab

- *3D Printing Workshop: Rocket Design and Printing*
- *Artificial Intelligence & Neural Networks Workshop*

Capstone Impact Challenge Workshop

- *Introduction and Define the Challenge*

Career Immersion Experience: Speaking Event

Day Three: Engineering Applications

Engineering Exploration Lab

- *Helicopter Electronics Workshop: Circuit Design and Programming*
- *Engineering Practical Workshop: Design and Programming*

Career Immersion Experience - Speaking Event

Defining Project Goals and Brainstorming Solutions

Day Four: Design and Build

Building Leadership Presence Workshop Series: Ethics in Engineering

Off-Site Excursion with Out & About Lunch

Career Immersion Experience: Speaking Event

Capstone Impact Challenge Workshops

- *Prototype Design*

continued on reverse

**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 2024. The specific 2024 schedule, locations, speakers, and site visits may be modified.*

Day Five: Engineering Project Management

Engineering Exploration Lab

- *ArcGIS Remote Site Planning with Geographic Information Systems*
- *Electrical Engineering Workshop*
- *Water Systems Workshop*

Capstone Impact Challenge Workshops

- *Testing Solutions*

Career Immersion Experience: Speaking Event

Day Six: Explore Careers in Engineering

MyActionPath Career Assessment

Campus Tour and Exploration

Capstone Impact Challenge Workshops

- *Final Design and Build*
- *Presentation Preparation, Practice, and Feedback*

Career Immersion Experience: Speaking Event

Day Seven: Engineering the Future

Capstone Impact Challenge Final Presentations and Showcase

Finalize Maker Documentary

Certificate Presentation

Assessments and Feedback Sessions

Day Eight: Farewell and Departure of Students

Program Debrief

Student Travel and Departure Assistance

As always, the well-being of our scholars and staff is our priority. We implement first-rate health, safety, and risk-management protocols into all our programs, based on recommendations from our Health & Safety Team and medical advisors. We're also committed to evolving our policies and protocols to reflect our program partners' requirements, public policy, and the Centers for Disease Control and Prevention (CDC) guidelines. To see our current standards, visit envisionexperience.com/for-students/health-and-safety.