What makes a Fulton Schools engineer?

A Fulton Schools Entrepreneurial mindset

Observe surroundings to **recognize opportunity**

Explore multiple **solution paths**

Gather data to **support and refute** ideas

Observe trends with a **future-focused** perspective

Suspend initial judgment on new ideas

Collect feedback and data from many customer segments

Apply technical skills towards **developing a product**

Modify plans based on **feedback**

Describe how a discovery could be **scaled and sustained**

Understand the **value proposition** of a discovery

Define a **market and opportunities**

Know that actions can lead to both **gains or losses**

Articulate ideas to **diverse audiences**

See value in multiple **perspectives**

Understand how elements of an ecosystem are **connected**

Work with those possessing **complementary skillsets** and expertise

Integrate different kinds of knowledge

Critically observes surroundings to recognize opportunities. **Applies technical skill and STEM principles** to solve complex engineering problems.

Communicates with diverse audiences, **articulating how a discovery adds value** from multiple perspectives.

Conducts experimentation and **uses data to support or refute ideas.** Implements customer feedback and **uses engineering judgment to draw conclusions.**

Applies human-centered design to discover needs, values propositions and market opportunities. **Explores multiple solution paths,** suspending judgment on new ideas.

Recognizes an **engineer's ethical and professional responsibilities,** understanding that potential solutions can lead to both gains and losses.

Understands that elements are interconnected, and **makes informed judgements** about the impacts of engineering solutions.

Seeks and applies new knowledge, **synthesizes information from various sources** and uses a future-focused perspective to assess potential solutions.

Functions effectively on teams and creates an inclusive environment of **shared leadership** to establish goals, plan tasks and meet objectives.

An ABET Engineering skillset

Identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics

Apply engineering design to **produce solutions that meet specified needs** of public health, safety and welfare

Communicate effectively with a range of audiences

Recognize responsibilities in engineering situations and make **informed judgments**

Function effectively on a team, **establish goals, plan tasks and meet objectives**

Develop and conduct appropriate experimentation and **use engineering judgment to draw conclusions**

Acquire and apply new knowledge with appropriate learning strategies