**START** 

**HIGH SCHOOL** 

1 TAKE SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM) CLASSES

# PATHWAY TO BECOMING AN ENGINEER

### WHY BE AN ENGINEER?

Engineers design, build, and maintain the things we need for our modern lives – car engines, robots, cell phones, software systems, airplanes, roads and oil wells.

\$89,000 Average yearly wage of engineers in the US

#### **\$121,729** Average yearly wage of oil and gas industry engineers in California.

Follow the pathway to find out what it takes for you to become an engineer.

"Life is full of choices, you always have one, but don't forget the one you choose can define your future." – Shalanda Davis-Layton, Reliability Engineer, Chevron



INDEPENDENCE

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## **MEET SHALANDA**

### HER PATHWAY TO BECOMING A FACILITY ENGINEER IN THE ENERGY INDUSTRY

### GRADUATED FROM HIGHLAND HIGH SCHOOL AND ACCEPTED INTO CAL POLY

Being accepted was a dream come true despite a high school teacher once telling her she would never be accepted into Cal Poly.

Pursued a degree in Mechanical Engineering.

### BORN IN LANCASTER, CA

Moved to Bakersfield, CA with her parents when she was two years old.

Parents divorced when she was five, raised by a single mother in a low income household.

### SHE CHOSE MECHANICAL ENGINEERING FOR TWO REASONS:

She wanted to design a car her grandmother could drive without feet since she had recently had her leg amputated due to diabetes.

She met a friend of her fathers who was a Mechanical Engineer. She was in awe of the work and the lifestyle they were living and set her goals high.

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### FACILITY ENGINEER AT CHEVRON

Managed multiple small and large projects from \$100,000 to \$20,000,000.

Supported business planning efforts, led multi-million savings projects and served as a mentor.

Recently selected to work as a Reliability Engineer. Responsible for providing reliability support for large projects and ensuring efficient reliable operation standards are taking place. SHALANDA MOVED TO CHICAGO AND WORKED AS AN ACCOUNT MANAGER FOR A LOCAL POWER COMPANY, COMMONWEALTH EDISON, THEN AT ENRON AS A SENIOR PROJECT MANAGER.

Wanting a more stable career and to be closer to family, Shalanda landed her dream job at Chevron as a Facilities Engineer. SHALANDA WAS THE FIRST PERSON IN HER FAMILY TO GRADUATE FROM A FOUR-YEAR UNIVERSITY.

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NAME: Shalanda Davis-Layton POSITION: Reliability Engineer COMPANY: Chevron

> DUE TO FINANCIAL CHALLENGES, HAD TO RETURN HOME. SELECTED FOR AN ENGINEERING ASSISTANT INTERNSHIP AT BECHTEL PETROLEUM.

This opportunity solidified her pursuit to stay focused and get back to school.

SHE ENROLLED PART-TIME AT BAKERSFIELD COLLEGE. TRANSFERRED CALIFORNIA STATE UNIVERSITY FRESNO AND GRADUATED WITH A DEGREE IN MECHANICAL ENGINEERING

While attending Fresno State, she was an active member and secretary for the National Society of Black Engineers (NSBE) and involved in the American Society of Mechanical Engineers (ASME).

WHAT WILL YOUR PATH BE?