



Family Museum Scavenger Hunt

GO TO The Green by Design Exhibit (lower level)

A MATERIALS ENGINEER develops and tests materials used for products like computer chips, solar cells and snowboards.

If you were a materials engineer, what material would you change or create to make your life more green?

How do electric cars work? Try designing and racing a hybrid car to see how far it goes on a cup of gas. A **materials engineer** is the person who develops the materials that make up the car. Explore this exhibit to discover just how powerful wind, water, and sun can be

? **For Child:** How do electric cars recapture energy typically lost during braking?

? **For Parent:** Brainstorm ways that your family can reduce the amount of electricity and water that you consume.

GO TO NetPl@net (lower level)

Technology is all around us and lets us easily communicate with people that are far away. **Computer scientists** have developed the programs that allow for this communication to happen. Visit the virtual world and try designing your own character!

? **For Child:** How do you connect to the Internet? How do webpages, photos, emails, and music get from one place to another?

? **For Parent:** What was the most interesting technology you experienced when you were young?

A COMPUTER SCIENTIST develops computer hardware and software. They also design new machines that rely on computers to work.

If you were a computer scientist, how would you make computers usable for people with disabilities such as visual or hearing impairments?

GO TO

The Life Tech Gallery (upper level)

A **BIOLOGIST** is a scientist who studies organisms and their relationships to their environments.

If you were a biologist, what types of living things would you want to study?

All living things have DNA. The discovery of DNA by James Watson and Francis Crick led to a new type of science called genetics. Play the role of a **biologist** and explore the advances in the field of genetics.



For Child: How has medical technology changed the way that we diagnose, treat, and prevent injury and disease?



For Parent: Share a story about a pet that you had when you were a kid. If you didn't have one, what pet would you have liked to have and why?

GO TO

The Innovation Gallery (upper level)

Discover the inventions that changed the world. The invention of the microchip made the world more efficient. Pretend you are a **software engineer** and design your own microchip in the Silicon Workshop.



For Child: What are some of the different ways that we use microchips and robots in our lives?



For Parent: Describe something that you really enjoyed making.

A **SOFTWARE ENGINEER** develops, operates, and maintains software systems to make things like computers work.

If you were a software engineer, what type of computer program would you like to develop for your cell phone?

GO TO

The Tech Awards Gallery (upper level)

A **PRODUCT DESIGNER** uses engineering and design skills to create new products like car seats or toothbrushes.

If you were a product designer, what product would you like to develop?

Our world is filled with urgent critical issues in education, equality, health, economic development and the environment. **Product designers** are constantly developing things to make people's lives better. How have these projects changed people's environments?



For Child: Think about one problem in your community and brainstorm a solution for it.



For Parent: Share a story about a recent time when you had to find a creative solution to a problem.