

## Cool Engineers

### The Discover Engineering Theme Park



Where is the first place you will want to go? I don't know about you, but I am running to be the first to ride the biggest and baddest roller coaster they have in the park!

Well unless you are lucky, the first thing you encounter is a long line of people waiting to get on the ride. Even though there are a lot of people waiting, the line seems to move fairly quickly. There must have been a lot of thought into getting us through the line and onto the ride in as

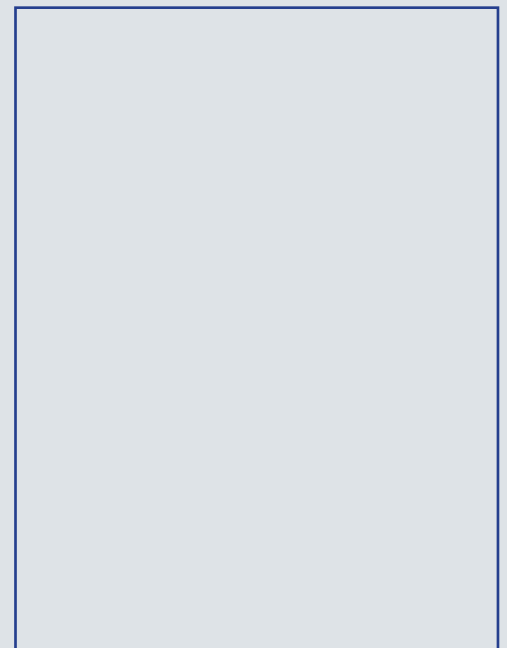
short a time as possible. Who do you think did this?

**Industrial Engineers** use their skills to develop systems to move people! While waiting in the line, you have probably had plenty of time to see people on the ride get flipped and corkscrewed through the ride. (Sometimes there are video monitors that show this as it is happening!)

It takes a lot of expertise to design a ride that will use motors and gravity to get you from start to finish in one piece. Who would help make this happen?

**Mechanical Engineers** and **Civil (Structural) Engineers** are among those that analyze the forces in the loops, turns and hills and develop the mechanisms that allow the ride to run smoothly from start to finish!

When you get to the front of the ride you notice a lot of gates and locking mechanisms that are typically controlled by an operator at a panel and assistants.



Who develops the control system that makes the roller coaster start and stop at the right times? [Electrical and Electronics Engineers](#) use their skills and education to develop control systems!

Now it is time to get into your seat and ride! Let's select one of the ten most popular roller coasters, buckle up and ride like the wind!

[Learn more about the design and science of amusement park rides](#)