



STUDENT ACTIVATION



Statistician

There are all kinds of problem solvers in our world, and one interesting solution-finder is a **statistician**. Statisticians design surveys, polls, experiments, etc. to collect data. Then, they use statistical and mathematical principles to analyze and summarize the data to help solve real-world problems.

STATISTICIAN ¹

Statisticians are people who apply the principles of mathematics and statistics and theoretical models to real-world problems. They gather, analyze, and interpret data to help in the decision-making process in various industries such as business, healthcare, environmental sciences, and politics. Some focus on understanding the trends in consumer choices, while others focus on furthering the public good.

IS STATISTICIAN A GOOD CAREER FOR ME?

Me	Statistician
I like thinking outside the box and using numbers to solve problems.	Statisticians are complex problem solvers.
I am good at communicating. I enjoy public speaking, explaining things to others, and writing effectively.	Statisticians are excellent communicators.
I can easily identify patterns.	Statisticians collect and analyze data to look for patterns that can help in the decision-making process.
I am interested in school subjects like math, calculus, and statistics.	Statisticians study advanced mathematics and statistics in college.
I enjoy working with others. I like to be a leader.	Statisticians are strong communicators. They enjoy working with others and leading teams.

¹ <https://www.northeastern.edu/graduate/blog/what-do-statisticians-do/>

Statistician

STUDENT ACTIVATION (CONTINUED)



How does this career help me?	How does this career help the world?
<p>Every time you or a family member takes medication or undergoes a medical procedure, you are benefiting from the work of a statistician. All medical procedures and treatments must go through extensive research, data collection, and analysis to gather insight into the problem, understand trends and possible resolutions, and determine safe and effective solutions.</p>	<p>Statisticians are at work helping to solve problems across the world both in the private and public sectors. They collect, analyze, and interpret data for private business to make experiences more positive and profitable for customers. They analyze trends in public policy to help political candidates make decisions. They use their skills to help solve global human rights problems.</p>

What are some similar careers?
<p>Actuaries use mathematics and statistics in the world of finance to determine risk and reward.</p> <p>Economists collect and analyze data and research trends to evaluate economic issues.</p> <p>Survey Researchers design and conduct surveys to collect and analyze data.</p>

Here are ways to practice the skills to be a successful **statistician**:

- Volunteer or get a part-time job with a company or community organization that gathers information through surveys and polls.
- Consider a problem or issue that students have brought up at your school or something going on in your community. Determine how collecting data or analyzing trends could help the decision-making or problem-solving process. Work to collect, analyze, and interpret the data needed to communicate a solution to key stakeholders.
- Discuss your course selection with your guidance counselor and try to make sure you are taking classes in advanced mathematics and statistics.

