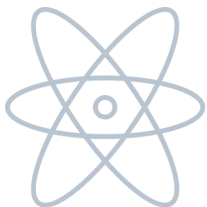




## STUDENT ACTIVATION



## Technician

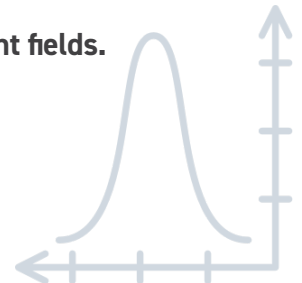


### OVERVIEW

Technicians like to work with their hands using sophisticated equipment. They enjoy diagnosing and solving problems. Technicians have excellent design skills and mathematical expertise to develop innovative solutions to problems. Depending on the field, technicians may work independently or under the direction of a professional. They can find themselves working in many different environments and fields, including medicine, manufacturing, energy, and construction. As robotics and automation become more and more of a reality, technicians will find themselves in high demand to build and maintain these new machines.

### EVALUATE YOUR INTEREST

- I like the idea of working with my hands in different fields.
- I enjoy diagnosing and solving problems.
- I like to take things apart and see how they work.
- I like the idea of having many options for fields of work.
- I enjoy drawing diagrams and using them to build things.





# Technician

STUDENT ACTIVATION (CONTINUED)



## CAREER CONNECTION

<b>How does this career affect me?</b>	<b>What are some other similar careers?</b>	<b>How does this career affect the world?</b> 
<p>The work of technicians is hard to miss. For example, technicians:</p> <ul style="list-style-type: none"><li>• Clean your teeth at the dentist.</li><li>• Draw blood when you go to the doctor.</li><li>• Take care of pets when they are sick.</li><li>• Diagnose your car when it is not running right.</li><li>• Keep power running to your home and power the world around you.</li></ul> <p>Technicians impact almost every aspect of life in our modern world.</p> 	<p><b>Cleanroom production technicians</b> performs all tasks involved in the production of a company's products, including manufacturing, assembly, and/or packaging of products. They follow standard work methods and practice safe work habits to ensure production is as efficient and reliable as possible.</p> <p><b>Diesel technicians/mechanics</b> assist in the repair and diagnosis of significant parts of various trucks and trailers at the direction of the supervisor. They have a strong ability to diagnose and repair trucks with little or no supervision.</p> <p><b>Research technicians</b> test raw materials and finish products following standard operating procedures. They are responsible for preparing and standardizing any reagents or standard materials required for analysis. They interpret test results and generate basic lab reports. Research technicians handle routine lab maintenance such as cleaning glassware and disposing of unused samples and laboratory waste.</p>	<p>Technicians provide the backbone to much of the industry in the world today. They are the ones who make things work, and they fix things when they are broken and upgrade systems to new technology. They keep hospitals, labs, manufacturing, automotive centers, drug manufacturers, construction companies, and oil companies running daily. These positions are open for anyone with a high school diploma and provide a path to employment that is both lucrative and enjoyable. Technicians find themselves on the cutting edge of technology due to their ability to quickly retrain to another field. Technicians demonstrate fundamental skills that make it possible for them to transition from job to job. Without technicians, our society would be too specialized to function.</p>

## TAKE ACTION

- Investigate your community or school. Count how many different technicians you can find, and record what they do in their work. Identify two you may like to explore and share your plan with your family or school!
  - Contact a local company by phone or email. Prepare a list of questions beforehand and interview a technician who works there. What is this company doing to help its technicians retrain for the future? If you know a worthy cause that this company could consider contributing to, be sure to recommend it!
  - Put your design skills to the test as you design infographics of the different ways technicians impact the world around you. Follow the design process as you identify the need, research the issue, brainstorm ideas, develop a solution, prototype, test, and evaluate your design, and then improve upon it! Post your infographic for your school to see!
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