

Transcript: [Show 19 January 23, 2012](#)

Up next on ATETV, zeroing in on careers that utilize geographic information.

GIS technicians collect data out in the field and then analyze that data for many different applications. The growing need for that data fuels the demand for skilled technicians in a wide range of industries.

We farm, corn and soybeans. My name is Daniel Bosman, Technology Manager at Premier Grain and I run all the data collection, data processing from all the equipment.

First I drive out here to the open space and set an A B line and do some over steering.

Day in and day out would be fixing computer problems, getting computer data ready to go, troubleshooting all the technology equipment inside the tractors. Making sure that everything's working great.

If I was looking to hire, I would look for an understanding of computers and how technology works mainly the GPS, GIS stuff so he kind of knew what he was doing when he put them in one of those tractors over there.

What we have here is a John Deere 7820. We use this for corn and oats planting. We run it on global positioning satellites. Sector 8, we'll drive a little ways like a hundred feet, set your B.

There's going to be a larger need for knowledge as to how the computers take that data and turn it into data that we can use. Without knowing how to use that software, all the data you collect in the field is probably useless. As farming operations get larger and inputs get more expensive and it becomes more expensive to farm that acre of ground, there'll be a large opportunity for technology skills or degrees in technology.

My name's Clarisse Madelena. I'm from New Mexico. Most of the technology I use is, of course, the computer. My GIS background comes in handy mainly because of the GPS units, the GIS software. I use that a lot at work.

I work for the Department of Interior, Office of Surface Mining. What I am is a GIS technician. I make maps using digital images as well as integrating the GPS data that I get from the inspectors who go out to the coal mines. I have gone out to a coal mine to see what the inspectors actually do with their GPS units and what they're looking for. And then when they bring the GPS units back then I download the data. If they need a map of it, then that's what I do.

My name's Michael Labossiere and I am the Watuppa Reservation Forester and Superintendent. My job here is to steward the Forest, it's a real multiuse forest and the city is attempting to manage it in a pretty modern and diverse way.

And here's the road that we came up and this is the mansion.

What we're doing right now is GPS work to identify the historic landscape features that are here. There are stonewalls, ice house ruins, cellar hole foundations. The object is to preserve this landscape, to tell the story of how this land was used in the past and so we'll produce a map. The map will be used for interpretation purposes.

Here we have our GPS units, all wiring information.

We've also used mapping of discrete forest types and ecology using aerial photographs, topographic maps but today we're able to use GIS information more and more. We're managing thousands and thousands of acres. Information is vital to being efficient with our time and being efficient with the resource.

You go to the next corner or four corners. Do the entrances after?

I think when you're driven and motivated by the thing that you love and technology becomes a tool that you understand will help you do it better, more effectively, more efficiently, you will embrace it.

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Thanks for watching.