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Coming up next on ATETV. Architectural technology.

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Rapid prototyping.

You're prototyping it. You're making an inexpensive model of something, and so you don't spend all the money, you know, and the overhead building a mold for something that, you know, after you're done making, you realize it wasn't even that functional, and it won't work.

And geospatial technology.

Students get enough training in one or two classes; they get offered really good jobs.

Now, on ATETV. From across the country to your own back yard, ATETV shows you the many advanced technological education opportunities available at your local community college. If you have a strong artistic side and have a love of math, then studying architectural technology might be in your future, and it's not just about designing buildings. Technology and modeling software, such as AutoCAD, are tools used in engineering and manufacturing as well. Take a look.

My name is Andrew Godek. I'm nineteen years old. This is my second year at Benjamin Franklin Institute of Technology. My major is Architectural Technology. I found out about this college through one of my guidance counselors. We were just looking through schools in Boston, and we came for orientation, and I thought it would be a great school to attend. The classes we take here are architecture design studio. It's a free hand drawing class. We take CAD I and II, and right now, I'm taking design studio where you make in your own house. You have to have a passion for drawing, I would say most of all. You definitely need a lot of math, geometry; physics plays a big role into it. When I graduate from here, I'll probably go to the Boston Architectural College or Cornell University. If someone is thinking about going into architecture, I recommend the city because there's always great job opportunities in the city, and that's where you learn the most stuff. Definitely have the passion for drawing and be good in math. That's all I can say.

Students like Andrew have the opportunity to express their creativity and fulfill their interests and passions through ATE programs, and architectural technology students can learn the skills needed to literally influence the design and landscape of a city. If you would like to learn more, be sure to visit your local community college.

Technicians skilled in rapid prototyping are in great demand in the field of manufacturing. This type of modeling saves business and industry lots of money by giving them the opportunity to test functionality on a low cost model prior to actual production. Take a look.

I'm going to pass this around and pull your project out, set it down in front of you, then we'll go over that.

My name's Chris Eckert, and I'm 27. I attend Saddleback Community College, and I'm currently enrolled in the Rapid Prototype technologies classes.

Ok. Open the door.



I kind of grew up in a hardware store, and so just the whole environment, you know, growing up in there, taking things apart, putting them back together, and just, you know, just saying, "Oh, you know what, I can make this."

Then the plastic shell right over the circle.

If you've got a project, something you invented, using reverse engineering, you know, three-dimensional space, and then from there we'll build it...

Now, we're going to move the part and all the powder around it into the cylinder.

You're prototyping it, you're making an inexpensive model of something, and so you don't spend all the money, you know, and the overhead building a mold for something that, you know, after you're done making, you realize it wasn't even that functional, and it won't work.

Me, I'm a real mechanical person, but put me in a classroom, I'm not really into it. You know, getting your hands in there, and, you know, seeing this product come out of, you know, out of nothing is pretty amazing and just watching the way a part is made is really cool. I have personal, you know, goals that I want to do, you know, just inventing stuff. You know, that's really where my passion is, but if I can also have, you know, a really cool job, you know, working for, you know, a company, making, you know, good money and doing something that's really fun, hands on, that's, you know, that's all good by me, you know.

Students like Chris are getting an exciting and hands-on education with that type of innovative program, and they're being given the opportunity to be true inventors of new technology even before they graduate.

If a career in rapid prototyping is something that interests you, be sure to check out your local community college.

Interested in maps and computer mapping technology? How about working in your chosen field while still in college? Let's take a look at the geospatial technology program offered at Central Piedmont Community College.

We have a lot of students who are finishing our degree and going right into the workforce.

For the past two years, every one of our graduates is currently employed in the geospatial technology field. They're working for county government, city government, engineering firms.

We have relationships between the county and the city as well as a number of private vendors in the area. We set up basically a pipeline where students can go to job interviews to work part time jobs.

We can come close to replicating their training in the classroom, but really the best way to get them the experience they need is to place them with some sort of temporary or part time employment.

First thing we're opening a new empty map document I put my name in on the list to see if there was any employers out there interested in bringing a trainee in, and I was hired on this is very challenging, very interesting...

Julia works for a local engineering firm that specializes in photogrammetry and mapping. She has continued to take classes at Central Piedmont Community College to develop the skills she needs to advance within that engineering firm.

Do you remember what button you use to collect the points?



Students who are interested in working out in the field can specialize in the GPS data collection, and those that are more interested in working in an office environment, they're able to specialize in quality control, quality assurance, or data entry itself.

Those streets were red before.

Most people that are in this field need to take a database management class because the information in the program we use is organized in databases. You don't just make maps. You could make a report and not actually make a map.

Students get enough training in one or two classes and get offered really good jobs.

One of our greatest success stories are students who work as interns, then work as contract workers on short term, and then get fielded for full time jobs.

That will give them an idea of what to expect when they're done with their studies and provide them with the contacts and the knowledge of what they're going to be doing once they graduate.

Community college programs like that one are not only attractive to new students looking to enter the workforce, but also to established workers seeking new skill sets to help them achieve advancement. If you want more information on a geospatial technology program near you, or want more information on anything you've seen today, explore our website at ATETV.org.

Thanks for watching.