

**Transcript:** [Episode 34 / May 10, 2010](#)

Coming up next on ATE TV, internships...

The concept is if the student that comes in and interns with us fits and likes what we do, I'd love to be able to offer them a job and keep them on.

...information in communications technologies...

There's a technical side which is very close to the hardware, and then there's the business side where you sort of automate the business process.

...and biotechnology.

It's DNA purification. We're extracting plasma from a cell and we're separating it from the bacteria.

Now on ATE TV.

From across the country to your own back yard, ATE TV shows you the many advanced technological education opportunities available at your local community college.

Interested in getting some real on the job experience while still in college? Internships are a great way to do that and most community colleges encourage it. Take a look.

Alright, get your glasses I'll do one and you do the same thing.

Having an internship where you have a referenceable manager, I mean that's a key.

We've been working with interns since we were probably less than 10 people. At any given time you might see 3 or 4 interns in our office.

Let's put in the bracket, right on the base. Good.

We have an internship program so we do hire interns. And it's great if somebody has had an internship and they've done something similar to what we do at another place. So we actually like to find students that come in with an internship background.

There you go that'll be perfect.

We do have a number of full time employees that started out as an intern. It's a good way for us as an employer to really evaluate how they'll fit in with the company if they do the job, if they're bright, that sort of thing.

Bring another in so we can have the 2 motors.

I'm actually a very big believer in hiring interns. The concept is if the student that comes in and interns with us fits and likes what we do, I'd love to be able to offer them a job and keep them on.

We also pay these interns so some of the interns are actually older students who are already married and might have a family life. And this allows them not only to go to school, but to be productive and provide for their families.

There's multiple wavelengths in this laser...

The experience you get on the job is so valuable. Interacting with customers, being in a profit driven organization.

We've got it bouncing off mirrors and going through a diffraction grating.

There's nothing like experience to really you know compliment your knowledge skill base.

There's no substitute for experience and internships are a fun and exciting way to get that experience.

You can find out more about internships by visiting your local community college.

Do you love computers? Putting them together, setting up networks, maybe even developing your own specialized application? Community colleges all across the country offer many programs teaching information and communications technologies. Let's take a look at what's happening at Springfield Technical Community College.

Here's your router, It will go to the firewall.

Like you don't see any routes?

I do virtual...

Springfield Technical Community College is a two year college. We have all types of technical programs. CIT stands for computer information technology.

So you have to set up the firewall...

It encompasses many things in the industry. It encompasses networking, it encompasses computer programming, web programming. And there's a technical side which is very close to the hardware. And then there's the business side where you sort of automate the business process. And we sort of do a little of both here.

So we connect everything to the hub and then something off the router?

We're preparing programmers for programming jobs. We're preparing web programmers for web programming jobs. And then we also have a micro computer specialist degree and an information security degree. So they'll take an introductory computer course.

Well typically a course like that you'll spend maybe 3, 4 hours a week in the lab actually doing some hands on stuff. So you learn about things like operating systems and basic networking, things like IP addresses and how to make 2 computers talk to each other.

Yeah, after you're able to ping through the whole way from your LAN computer to your internet...

Not only do we try to give you the necessary theory to be good, but we also really try to promote the hands on aspects.

Like you don't see any routes.

We're in and your dealing with the physical equipment, the cables, everything. This hands on, real world stuff is wonderful.

And then the other part to the server. So now you're going to be able to put networks in here. Let's do the networks.

I came here; I was really pretty much illiterate on a computer. I was -- I knew like a mouse, a keyboard, something else. I learned more not only through the teachers here but you have excellent students who've helped me along the way.

So we're not going to be able to do it through here, its' gotta go through a server.

That's the nice thing about the community college is you can come whether you're out of school for awhile or if you've had trouble in high school. We sort of test and place students properly where they should be and sort of set them up on a path of success.

The internet 4, 0, 7.

It's been a really nice pathway for a lot of these students because a lot of my students will graduate and get a job right away.

Firewall and a router.

Those students are getting hands on, real world experience that can lead them to high tech careers. Your local community college can help you pursue a career in the fast changing world of information and communications technologies.

Hands on experience is not only necessary in the world of computers, but is essential in the field of biotechnology. Let's meet Juan of Southwestern College who already had a degree at a 4 year university but returned to community college in order to get the hands on skills to secure a job in the lab.

My name is Juan Valenzuela. I'm here enrolled in the biotech program at Southwestern College. I actually received my bachelor's degree in biology and I'm returning back to the program because I've been applying at a number of places and a lot of places require experience. So with this program I'm hoping to get into an internship.

It's dna purification. We're extracting plasma from a cell and we're separating it from the bacteria.

It's giving me a chance to get hands on experience and hopefully get out there in the job field. I'm really eager to move on into the field in biotechnology. I can't wait to finish the program and get there and just be part of the scientific field.

Not bad for the first transformation.



It's one of the best things that I could recommend.

Juan is preparing himself for a great career in the evolving world of biotechnology. Think you might be interested in an opportunity like this? Check out your local community college. And for more information on anything you've seen today, explore our website at [www.ATETV.org](http://www.ATETV.org).

Thanks for watching.