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Coming up next on ATE TV. Internships

Well, the internship helped me out tremendously to build my skills in the workplace.

And energy education.

Everyone's worried about energy conservation, so it's really important to learn how to do energy audits and learn the money you could be saving and the energy you could be saving.

Now, on ATE TV.

From across the country to your own backyard, ATE TV shows you the many advanced technological education opportunities available at your local community college. Community colleges offer students the chance to intern with companies and businesses in their chosen technology fields. And many students begin their careers with those companies as a result of having had an internship. Take a look.

Okay, so we cut in at a 45-degree angle, travel 10 miles --

I'm interning at the power plant by my house. I like it for the experiences because I get to work on a lot of systems in the nuclear plant.

Well, the internship helped me out tremendously to build my skills in the workplace.

Benefit of an internship is they get to understand what real life is about.

I learn something new every single day I'm out there. I was trained on how to wire up the electrical cabinets that you see, the big black box behind me.

Kids are getting hands-on experience while they're still in school. They're often in an internship within six months of when they started school.

We give these folks opportunity to come here and work hand in hand with our technicians in our process area to actually put in projects, and then if they actually perform well, they have the skills, and they're team players, then we consider them for openings.

How do you clean the lines?

They're actually Wellman employees working on a temporary basis, but we call them interns.

We call it a "grow your own" approach. Industries actually get these students early on in the program, and the students then sort of grow up with the industry as they complete their two-year associate degrees.

The interns have their own jobs. They are hands-on.

The internship helped me get a lot more familiar with the ESAB equipment.

They have a mentor they can shadow, but they actually are working in technical jobs on the floor with the already



employed technicians.

While I was at school, you know, I was doing hands-on work, then I would come here and do hands-on work again, so it was like doubling what I was doing. You know, it was sticking in my mind really well, an internship helped out a lot.

Quite a few of the manufacturing companies have typically two interns a year, and when they graduate in May, they hire them full-time. I mean they're -- they literally grown their own workforce from our program.

They actually have skills that are immediately applicable to the workplace as soon as the first semester.

Now, hopefully they will take a job with us, but even if they don't, when they go on to the real world, they have these hands-on skills where they've actually worked in a manufacturing environment, and that also looks good on somebody's resume.

It's very important for students to understand that the opportunities that exist when you graduate from these programs.

It allowed me to make some connections and talk with people that were higher up in the chain of command who helped me along the way to get where I am now.

Programs designed with input from industry, and internships with companies that are constantly hiring are giving students the experience they need to begin rewarding and successful engineering careers. For more information on internships, be sure to visit your local community college.

With the cost of producing energy climbing higher and higher, there's a huge demand for technicians who have experience in energy efficiency. The students at Sinclair are getting the hands-on experience they need to enter into the workforce.

Anytime you take fiberglass insulation, you compress it; you're losing its insulating value.

My name is Bob Gilbert, Sinclair Community College. I am the Director of the Center for Energy Education. I'm also a professor in the Civil Architectural Technology Department. We are preparing students to enter into energy workforce workplaces. Before you go into any alternative or renewable energy, the greatest rewards can be obtained by addressing energy efficiency.

Is that a heat pump on that one?

The first thing that we address is teaching them about energy efficiency.

Take a baseline building pressure reading from channel A.

Everyone's worried about energy conservation, so it's really important to learn how to do energy audits and learn the money you could be saving and the energy you could be saving.

Our program has been running for almost two years now and been full every term.

I had been reading about energy analysis and energy usage over the years, but I wanted to approach it from a scientific perspective, and this seemed the only way to get started.



So you're gonna learn to use three different types of software.

We study energy codes, simulation software, code compliance software, plus they get the hands-on of going out in the field.

Somebody get windows. Somebody gets this side.

What we think is a very unique to Sinclair Community College is learning how to analyze utility data, what portion of their natural gas is for hot water, for heating purposes, and the same with electricity.

I think we're gonna do the test --

We look at the envelope. We look at the mechanical systems. And we look at the operational procedures. Then they come up with an energy management plan. They reduce that to savings in actual dollars and cents and actual energy, and they reduce that to savings in CO2 emissions.

I would say to any future students this is the place to be. Everything, a broad-based energy efficiency education. We're learning some very up-to-date techniques.

When I leave a room, I turn off the lights.

As our country moves towards a more sustainable future, there's a growing need for energy audits, especially in industry. If you want more information on energy efficiency or more information on anything you've seen today, be sure to explore our website at atetv.org.

Thanks for watching.