

## Wilson Talent Center Virtual Visit - BioScience Careers

[Toby West] Welcome to Bioscience I'm Toby West and I'm the instructor for the BioScience Careers program. The BioScience program, if you're interested in science, you love biology, love, chemistry, you're interested maybe in environmental science. This is definitely the place for you. We do a lot of skill development. We've got a very well equipped quarter million dollar laboratory here for you guys to really dive in and get your hands dirty if you will. Learning and developing your careers in the Sciences. So students have a lot of diverse experiences when they come into BioScience; everything from basic chemistry laboratory techniques to learning some microbiology skills to DNA technology skills. Even some forensic science work with biofuels and bioenergy. So if you're interested in environmental science, looking at the environmental careers and you're concerned about like climate change and water quality and resource management, this is definitely a good fit for you as well. We take students through some laboratory experiences in water management and water technology. We have students get exposure to careers in water wastewater management. And then finally we kind of finish the school year with a little bit of natural resources and soil science and try to get students outdoors as much as we can. That time of year. Students are a part of our FFA program, so they can do some competitive events around veterinary science to soil science to forensics to food science. A lot of different opportunities to explore their career and passion. Students have the opportunity to earn up to a dozen different industry certifications. Everything from food science to animal science and OSHA general industry certification professional communications. Some of these certifications are good for students to have other resume, no matter what career they go into. This is a one year program with the option of coming back for a second year, but only for students that are interested in a water management career. there's an opportunity to earn college credit, so if your passionate and really interested in the Sciences, especially of course the laboratory Sciences, that we have here, you are definitely in the right place. With that, I'm going to turn it over to one of my students. Parker Douglas from Fowlerville High School and she's going to walk you through the lab and kind of show you around. [Parker Douglas] Hi, I'm Parker Douglas. I'm from Fowlerville high school. I'm a second year and you have a very nice lab facility, Sydney here is doing some slants with pet Micro. So that's part of our microbiology unit where we go in depth with types of bacteria and how they form the different growing types that there are and how different types of bacteria the environments they like and how to cultivate those bacterias. So this is Avery, he's another second year student working on chemical safety, so this is representing how you need to label things in the lab, which is very important so that you know what you're working with and the different chemical danger levels, which we also go in over in the first year of Bioscience. So this is our HPLC machine, it's one of our very high tech instruments that we used in the lab, which is very nice to have at the high school level. It's really helpful to chemically breakdown different types of chemicals or solids that are dissolved into water and then also we have a GC which is gas chromatography machine which is similar to HPLC in breaking down chemicals, but it uses gas instead of liquid. So this is Kylie, she's also a second year student at the BioScience program, so that's what you're going over Kylie. [Kylie] So I'll be demonstrating and how we can easily see the DNA. In an agarose gel. This would be used for like our forensics lab so we can see what evidence we can find on some of this stuff. [Parker] Getting into the field of agriculture and how that is a big factor in, you know, the

country we live in and the community. So as part of our program, in the animal side of things, we have a pet snake in our class this is maze. Maze is a rescue from the Ingham County Animal Shelter. He's been a very big part of our class over the last year. I think that the Wilson Talent Center and especially this program has been a really big part of my, you know, science journey in my classes and things because it's just such a hands-on program. It's very, very beneficial for people who learn hands-on and like more than just book work.

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