

HANDS-ON LEARNING.
WORKFORCE READY.



Polytechnic Newsletter February 2022

Cyber Madness Comes to Bismarck



The inaugural North Dakota High School State Cybersecurity Tournament (aka Cyber Madness) took place February 10-12, 2022 on the campus of Bismarck State College. A total of 13 teams from around the state gathered in BSC's National Energy Center of Excellence (NECE) for some fun and friendly competition. The first-of-its-kind tournament was a unique educational and skill-building experience for all participants. Great job to all the [Partners and Sponsors](#) that supported this event!

Connecting Talent to Opportunity



On Wednesday, March 2, 2022 from 4:00pm to 6:30pm students and members of the public will be coming together at the National Energy Center of Excellence (NECE) building to visit with and learn about employers from across the region and a variety of fields. If you are a business and would like to register for a table at the event, you can do so via [BSC 2022 Spring Job Fair](#).

\$500 Scholarship Opportunity

BSC will be hosting an upcoming virtual and in-person open house to introduce growing career opportunities. Meet with industry representatives and learn more about manufacturing, energy, and automation programs. There will also be a drawing for a \$500 scholarship! Please join us on the following dates:



March 8, [Virtual](#) option
March 22, [In-person](#) option

Flex Start begins March 7th

The Flex Start/2nd 8-week classes will be starting on Monday, March 7th. Classes are available to students looking to add another class to their current Spring 2022 class schedule or to students looking to start classes at BSC this Spring 2022 semester. There are a variety of on-campus, hybrid, and online classes. Students have until Friday, March 11th to register for a 2nd 8-week class that runs March 7th through May 8th. Complete listing of Flex Start [classes](#).

In addition to student success, Bismarck State College supports the growth of adult learners too. Professional development with a never stop learning mindset is all that's needed. Flex Start for [Adult Students](#).

Out & About

The Bismarck community was invited to a Robotics Awareness Workshop held at the Student Union on the BSC campus on February 4th. Current students, faculty, staff and community members witnessed some fancy four-legged foot work from the GO1 robot, designed by [SES Robotics](#).



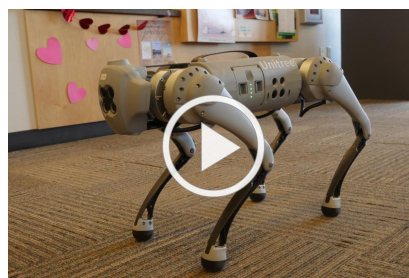
The workshop illustrated Unitree quadruped robots and their many uses in various industries:

- **Law enforcement** – Keep officers and the public safe by sending quadruped robots into potentially dangerous situations (such as domestic disputes, hostage situations, or even traffic stops) while officers safely observe events through the robot's live camera feed.
- **Manufacturing and industrial maintenance** – Sensors may be attached to the robots to detect such things as moisture, gas, temperature, or high or low-pitched sounds that could indicate a machine malfunction. Attached lidar may be used to map facilities.
- **Agriculture** – Quadruped robots may be sent into fields or greenhouses to take soil samples and run on-the-spot tests to determine levels of various nutrients or chemicals and can add nutrients as needed.
- **Search-and-Rescue** – Robots may enter dangerous conditions (such as a building or mine collapse), search for survivors, and send rescue workers pictures of the survivors and their surroundings. The robots are also capable of mapping the area using lidar to show rescue workers a viable path through the rubble.
- **Oil and Gas** – Larger robots have been used at oil and gas production sites that are inhospitable to humans and have kept production going when the nearest human is 100 miles away.
- **Medicine** – Quadruped robots may be used to deliver medicine and supplies or take readings of vital signs when patients are in quarantine or are immunocompromised and need to stay away from other people.
- **Hospitality** – Robots may be used to greet people and escort them to their seats or rooms.

The Unitree quadruped robots may be further enhanced by the addition of a robotic arm that allows the robot to open doors, turn handles, pick up items, and even manipulate tools, which could be useful in all the above industries.

GO1 was also a part of the [First Robotics Competition](#) held on February 5th at the Bismarck Public Schools Career Academy, also located on the BSC campus. Over 100 of the best high school students from around the state had the opportunity to see the GO1 demonstrate its capabilities.

Video from the Robotics Awareness Workshop-BSC Student Union.



Livestream!

On Wednesday, February 16 at 9:00 a.m. listen to the [1Million Cups](#) livestream as the Director of

Career, Advising and Counseling Services for Bismarck State College, Josh Randolph will share how higher education institutions are using the [Handshake](#) platform to connect students with careers and employers. Read more about [online career services](#) provided at BSC.

Come See Us

Upcoming Events

- Mar 2: [Spring Career Fair](#)-Bismarck State College
- Mar 7: [Jamestown STEM Event](#)-Jamestown
- Mar 8: [Automate Dakota: Virtual Meet & Greet](#)Virtual
- Mar 13-15: [ND DECA](#)-Bismarck
- Mar 14: Beulah Chamber (Cybersecurity)-Beulah
- Mar 22: [National Ag Day & Ag Program Open House](#)-Bismarck State College
- Mar 22: [Automate Dakota: Energy & Manufacturing Open House](#)-Bismarck State College
- Mar 23-25: [NDASSP](#) (High School Principals)-Bismarck
- Mar 27-29: [ND FBLA State Conference](#)-Bismarck

[Inquire Here](#)

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