



# PURE CYBERSECURITY

Michigan is taking a leading role and developing innovative solutions for protecting the security of systems and people.

## MICHIGAN MEANS SUCCESS

Michigan has developed a robust cybersecurity community focused on connecting the interests of the cyber, automotive, defense and aerospace industries. Michigan's Cybersecurity Initiative is the world's first comprehensive state-level approach to cyber, improving the state's defenses and fostering rapidly growing cyber talent and business environments.

- Michigan ranks third for cybersecurity growth potential according to Business Facilities' 13th annual rankings report.<sup>1</sup>
- Key Department of Defense R&D and procurement facilities are located in Michigan to support developing dual-use technologies that have both commercial automotive and military applications.
- The tech industry in Michigan added 13,160 jobs in 2017, which is third only to California and Texas.<sup>2</sup>

## COMMITMENT TO EDUCATION

Overall, Michigan has more than 55 independent universities and colleges, 28 community colleges, and 15 public universities. More than 6,600 engineers graduate from Michigan universities annually, for a total of

more than 123,000 engineers in the state—the most in the nation.<sup>3</sup> Through strategic partnerships between educational institutions, government, and private industry, Michigan is leading the nation in preparing the workforce for careers in cybersecurity.

- Pinckney Community Schools in Michigan is the first school district in the nation to create an institute aimed at addressing the rising need for people certified to address cyber-crime. The institute provides educational and certification opportunities for high school and college students, and tech professionals.
- SAE Michigan CyberAuto Challenge pairs high school students with professionals to participate in virtual hacking exercises to develop auto and cyber specific talent as well as mitigate risk in cyber automotive development.
- The Michigan Statewide Educational Network (MISEN) has brought 10 gigabit capability to Michigan intermediate school districts. Managed by Merit Network, MISEN will have the ability to purchase consortia-based services leveraging economies of scale, consolidating services, and driving down technology costs. Utilization of this

<sup>1</sup> <https://businessfacilities.com/2017/07/business-facilities-13th-annual-rankingsreport>

<sup>2</sup> [www.cyberstates.org](http://www.cyberstates.org)

<sup>3</sup> [https://e.economicmodeling.com/analyst/?t=2LYQW#h=9Q7rW&page=occupation\\_table](https://e.economicmodeling.com/analyst/?t=2LYQW#h=9Q7rW&page=occupation_table)



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network will give instructors the tools and funds needed to train K–12 students in high demand careers including technology and cybersecurity, and assist in building a cyber-ready talent pipeline.

- Michigan is home to the CyberTruck Challenge, the first program of its kind in the country. The event brings college students, U.S. Military Academy cadets, academics, and professionals to southeast Michigan for two days of classroom instruction and two days of hands-on activities. The vehicles involved include semi-trucks and military vehicles used to detect improvised explosive devices. Through this challenge, students are able to test theories on real-world information.

## ACCESS TO TALENT

As of 2016, there were nearly 140,000 people working in Michigan's IT and cybersecurity industry, more than half of whom are in the Detroit region.<sup>4</sup> Continually building upon this workforce is a priority not only throughout the state's educational ecosystem but also through a variety of programs and initiatives.

- The Michigan Cyber Range, powered by Merit, offers a platform for cyber exercises, product testing, and digital forensics, and more than 40 professional certifications based on the National Initiative for Cybersecurity Education (NICE) framework. This training is

designed to help cybersecurity professionals prepare for real-world situations and has expanded the pool of available cybersecurity workers in Michigan (and beyond).<sup>5</sup>

- The Michigan National Guard has five installations to the Michigan Cyber Range and is able to conduct first-class cyber training exercises in a secure environment.
- A critical component to swift cyber response is the Michigan Cyber Civilian Corps. Announced in 2013, Cyber Civilian Corp is a group of dedicated volunteers with a mission to work with government, private sector, and educational institutions around the state to provide rapid response in the event of a declared state of emergency due to a cyber event.
- Michigan State Police's Cyber Command Center investigates cyber crime incidents throughout Michigan and plays a critical role in providing investigative support in the seizure, acquisition, and analysis of digital evidence including digital device forensic examinations for the law enforcement community.

**Michigan has the resources, talent, and infrastructure to help cybersecurity business thrive. To find out how you can be a part of Michigan's success story, visit [www.michiganbusiness.org](http://www.michiganbusiness.org).**