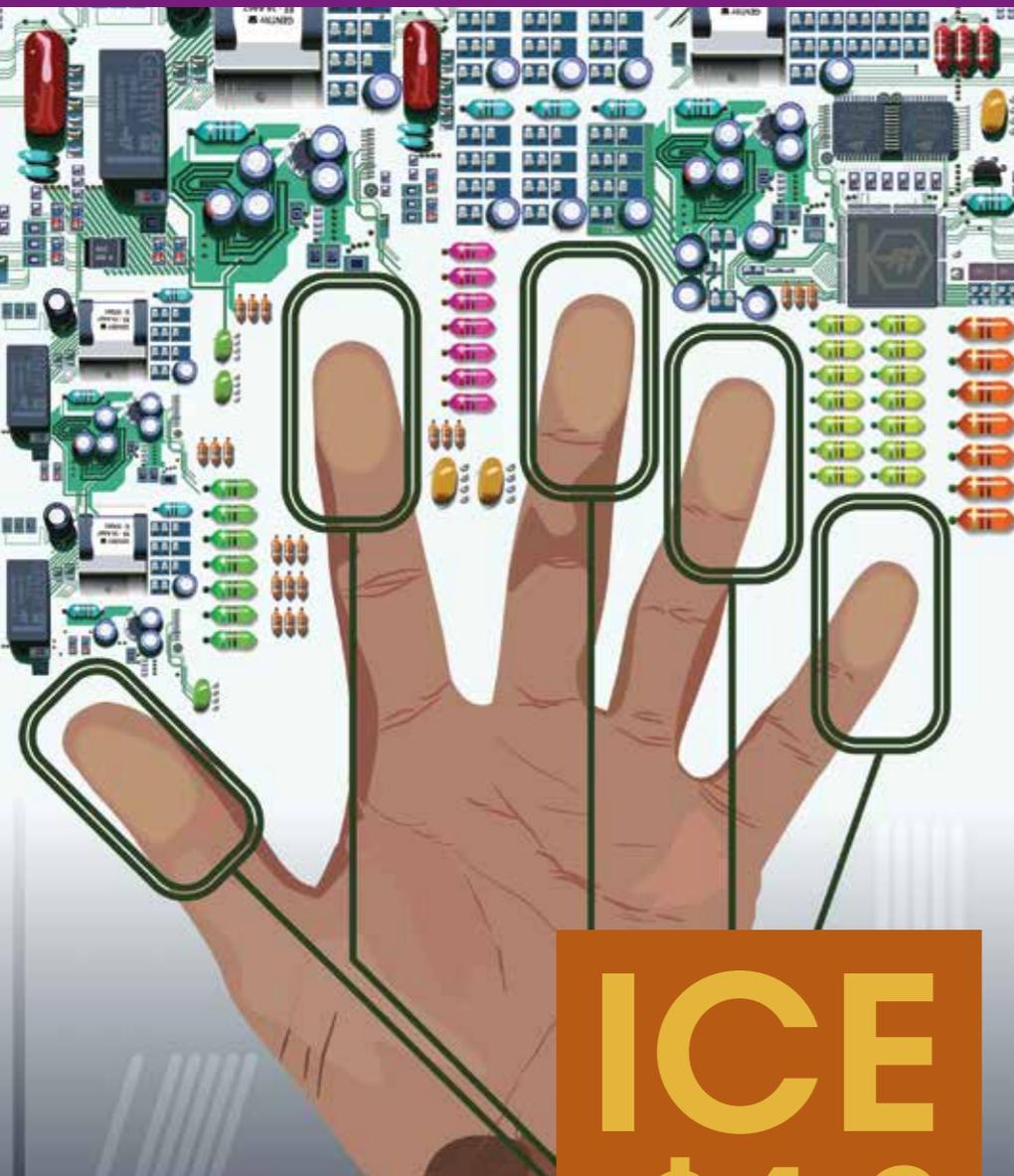


WE MAKE THINGS HERE

IDEAS + PRODUCTS + PROFITS



**INSTRUMENTS,
CONTROLS AND
ELECTRONICS**

ICE
IS A **\$4.3**
BILLION INDUSTRY
IN OHIO

Source: Moody's Economy.com

Cleveland+
Akron+ Canton+ Youngstown

WE MAKE

INSTRUMENTS, CONTROLS AND ELECTRONICS BUSINESSES EXCEL

Cleveland Plus supports the Instruments, Controls and Electronics (ICE) high-tech industry with engineering and manufacturing resources, a tech-savvy workforce and innovative programs such as Ohio Third Frontier, which funds new-product development.

OHIO'S ICE INDUSTRY AT A GLANCE

ICE is a \$4.3 billion industry with 845 companies in Ohio employing nearly 35,500 workers. Moreover, Ohio ranks 4th in employment for electrical equipment manufacturing.

Sources: EMSI 2013.4 and EMSI 2013; Moody's Economy.com

WHY ARE ICE COMPANIES ATTRACTED TO THIS AREA?

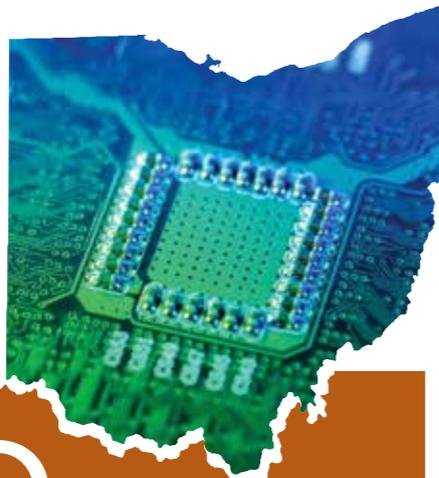
Cleveland Plus offers an outstanding logistical infrastructure, a relatively low cost of doing business and a talented, dedicated workforce. Additionally, we serve the specialized needs of the ICE industry by providing:

- + **Experience in manufacturing** industry controls, printed circuit boards, optical instruments, and medical and diagnostic equipment.
- + **Easy access to end users**, including automotive, aerospace, steel and metals fabrication, and electronic equipment companies.
- + **Connections to industry partners through NorTech**, a technology-focused organization that strengthens Northeast Ohio's economic vitality by accelerating the pace of innovation in the region's emerging industries, including advanced energy, flexible electronics and water technologies. These industries draw on the region's inherent strengths in ICE to produce new technologies.
- + **Pioneering research capabilities** in sensor and sensing technologies, three-dimensional machining and advanced machine intelligence.

TECHNOLOGY RESEARCH

Cleveland Plus is committed to driving advances in technology and processes that keep the ICE industry moving forward at an aggressive pace. Here are just a few of the centers in Northeast Ohio that are actively involved in research projects:

- + **Cleveland State University's Center for Advanced Control Technologies (CACT)** The CACT develops cutting edge technologies to help companies maintain a competitive advantage in industrial control.
- + **Cleveland State University's Wright Center for Sensor Systems Engineering (WCSSE)** The WCSSE works toward improving Ohio products using Ohio business and university resources. WCSSE was established by a \$24 million grant from the Ohio Third Frontier program to Cleveland State University to develop and commercialize sensor and sensor systems technologies.
- + **Kent State University's Glenn H. Brown Liquid Crystal Institute (LCI)** The birthplace of liquid crystal displays, the LCI is the world's first research center focused on the basic and applied science of liquid crystals. Research at the LCI addresses the entire range of multidisciplinary topics associated with the science and technology of liquid crystals and related self-organized materials and devices.
- + **Ohio-ICE** This university/industry collaboration brings Cleveland State University, Case Western Reserve University and The University of Akron together with industry partners including Rockwell Automation, Keithley Instruments and ABB. The research conducted by Ohio-ICE focuses on sensors, networked distributed systems and advanced motion control.
- + **The SMART Commercialization Center for Microsystems** Located at Lorain County Community College, the SMART Center offers tools and resources for packaging, testing, inspection and design to support the development of microelectromechanical systems (MEMS), sensors and microsystems into commercial products.
- + **The University of Akron's Center for Advanced Energy Systems (CAES)** The CAES is a multidisciplinary center dedicated to the creation, development, and promotion of new technologies and practices in the field of energy systems.



OHIO
IS HOME TO **845**
ICE COMPANIES
EMPLOYING NEARLY
35,500
WORKERS

Source: EMSI 2013.4

NORTHEAST OHIO'S ROBUST MANUFACTURING BASE

The Cleveland Plus region has a robust manufacturing base to support ICE businesses. Leading areas of ICE manufacturing, in terms of employment and concentration, include:

- + Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use
- + Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables
- + Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals
- + Motor and Generator Manufacturing
- + Relay and Industrial Control

FUNDING OPPORTUNITIES

Ohio's high-tech industry is bolstered by innovative programs, such as Ohio Third Frontier. This \$2.1 billion program promotes economic growth with support of existing industries that are transforming themselves with new, globally competitive products, and aiding in the attraction of new companies in emerging industry sectors. The program helps fund Ohio technology-based companies, universities, nonprofit research institutions and other organizations to create new technology-based products, companies, industries and jobs.

WORLD-RENOUNDED BUSINESS PARTNERS

Northeast Ohio is home to some of the world's most respected manufacturers – corporations known for their commitment to building mutually beneficial partnerships. Cleveland Plus has companies that represent the full ICE supply chain – from research to manufacturers – and span industries from automotive to aerospace.



Cleveland+

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We make things here.
Ideas + Products + Profits

Instruments, controls and electronic businesses choose **Cleveland Plus**. From ideas to products to profits, **we make things here**. We make things happen.

To find out more about Cleveland Plus, contact us at **888.NEO.1411**. Or visit **clevelandplusbusiness.com** today.



Scan the QR code to the left with your smart phone for more information.

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