



Wisconsin is leading the way toward an efficient and sustainable future.

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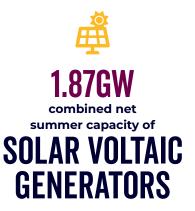




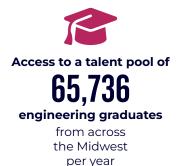














to 27 organizations across Wisconsin to address barriers to workforce participation such as:



INDUSTRY STRONG. TECHNOLOGY SMART. FUTURE READY.

1,155

Wisconsin energy, power, and controls companies

Data Axle, 2025

121,932

Wisconsin energy, power, and controls jobs

Lightcast 2025 Q1 Dataset



BUILT FOR INNOVATION

Wisconsin is a global center for energy, power, and controls—leveraging market-leading industrial capabilities, advanced academic research, and specialized institutions. We are generating new ideas, advanced applications, and energy efficiency technologies to power the world. Electrical machinery and control manufacturing is one of Wisconsin's fastest-growing and most competitive industrial sectors, and companies in this sector are committed to addressing the world's energy challenges by continuously adapting to new market demand and opportunities. Across the world and throughout this essential and rapidly changing industry, it's hard to find an electron that doesn't flow through something that's made in Wisconsin.

ENERGY — grid modernization, innovating and building next-generation and more compact microgrids that are more reliable and affordable, biofuels, nuclear fusion and fission, renewables and new battery chemistry systems to improve energy storage and safety, and digital twins for industrial efficiencies

POWER — transmission, distribution, monitoring, efficiency, and quality, including improved insulators and dielectrics for higher energy and more compact applications

CONTROLS — power controls and sensors; automation and systems intelligence for industrial and building applications; energy management; SMART grid/ distributed energy, wind, and solar control; energy cybersecurity and resiliency

WISCONSIN'S LEADERS IN ENERGY, POWER, **AND CONTROLS**

















INDUSTRY STRONG. TECHNOLOGY SMART. FUTURE READY.





22 MINUTE

average commute time

U.S. Census Bureau, American Communities Survey



0.4%

effective tax rate on income from manufacturing activities

Wis. Stat. § 71.07(5n)

In Wisconsin, we are defined by our collaborative approach. Centers and institutes facilitate partnerships between academia and industry, often with federal funding benefits, while advancing innovation and developing next-generation talent. Regardless of your company's niche in the energy, power, and controls ecosystem, we probably have you covered.

ENERGY AND ENERGY STORAGE

Wisconsin Energy Institute is the home of catalytic research, training, and technology, with nearly 170 faculty members working across disciplines to solve large-scale energy challenges. (UW-Madison)

The **Center for Sustainable Electrical Energy Systems** is developing technologies to make electric power systems more sustainable, cost-effective, and secure. Researchers are developing power-dense and efficient power electronic converter packages, making systems lighter and more efficient. Facilities also include a one-of-a-kind customized environment for electromagnetic interface measurement. (UW-Milwaukee)

The **Energy Advancement Center** hosts one of the few dry labs for energy storage research in a North American university. This is one of only a handful of labs in the world that addresses a full product cycle—material synthesis, proof-of-concept, fundamental electrochemical and material studies, and bench-top manual fabrication of vehicle batteries, through pilot production. (UW-Milwaukee)

The U.S. Department of Energy Industrial
Assessment Center provides free evaluations to
manufacturers and wastewater treatment plants

manufacturers and wastewater treatment plants to help them reduce waste, save energy, and reduce carbon emissions. To date the center has saved those businesses roughly 20% of their energy bills. (UW-Milwaukee)

The **Great Lakes Bioenergy Research Center** is one of four bioenergy research centers of excellence established by the U.S. Department of Energy. It researches and develops efficient, sustainable biofuels and bioproducts made from dedicated energy products grown on marginal land. (UW-Madison)

The largest **wind tunnel** in Wisconsin is used to test wind turbine rotor blades as researchers work to make the turbines more efficient, quieter and longer-lasting. The facility is widely used for aerodynamics, to measure airflow over buildings and many other applications. The team also uses biomimicry in this work, using the shape of bird wings as inspiration for the shape of the blades. (UW-Milwaukee)



#2

for manufacturing employment concentration in the U.S.

Business Facilities Magazine, July/August 2024

INDUSTRY STRONG. TECHNOLOGY SMART. FUTURE READY.

Workforce Innovation Grants are providing

\$128 MILLION

to 27 organizations across Wisconsin to address barriers to workforce participation such as:

- > Child care
- > Transportation
- Housing



POWER

The **Power Systems Engineering Research Center** is a hotbed of electrical transmission and distribution research. (UW-Madison)

With more than 60 corporate sponsors, the **Wisconsin Electric Machines and Power Consortium's** researchers work together to research and develop the newest technologies and techniques in electric machines, power electronics, actuators, sensors, drives, motion control, and drive applications. (UW-Madison)

With the presence of companies such as Realta Fusion, Wisconsin is leading the way to develop **fusion technology** for an abundant source of clean energy-with the presence of UW-Madison and the entire UW system as a key resource for startups working on related technologies.

CONTROLS

The **Grid-connected Advanced Power Electronics Systems** (a National Science Foundation Industry/
University Cooperative Research Center) has a mission to accelerate the adoption and insertion of power electronics into the electric grid, to improve system stability, flexibility, controllability, robustness, and economy. Member universities and companies span the U.S. (UW-Milwaukee)

The **Connected Systems Institute**, chosen to host the nation's first Microsoft artificial intelligence lab focused on manufacturing, develops domain specialists through education, state-of-the-art lab and collaborative research facilities, which include an advanced manufacturing testbed, digital twin technologies, and industrial machine learning and networking. (UW-Milwaukee)

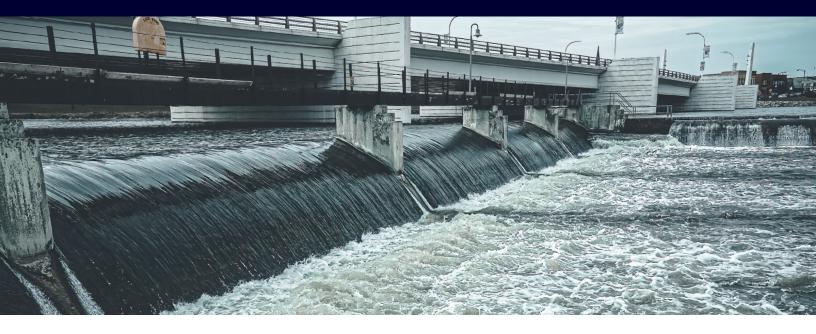
The Trustworthy Cyber-Physical Systems and Infrastructures Lab addresses the issues related to the emerging fields of cyber-physical systems applied to smart grid, microgrid, energy-efficient buildings, water and natural gas distribution networks, intelligent and sustainable transportation, health care systems and smart manufacturing. (UW-Milwaukee)



Federal agencies funding academic energy, power, and controls research in Wisconsin include:

- > The U.S. Department of Energy
- > The National Science Foundation
- > The U.S. Department of Defense
- The U.S. Navy (Office of Naval Research)
- > The U.S. Air Force
- > The U.S. Department of Agriculture
- > The Advanced Research Projects Agency-Energy (ARPA-E)
- > STTR/SBIR grants from these agencies

INDUSTRY STRONG. TECHNOLOGY SMART. FUTURE READY.



WISCONSIN BY THE NUMBERS



826MW

combined net summer capacity of onshore

WIND POWER GENERATORS¹



240 HYDROPOWER GENERATORS

across 65 facilities with a cumulative net summer capacity of

410MW¹



1.87GW

summer capacity of

SOLAR VOLTAIC GENERATORS'



730

publicly accessible charging stations with

1.763 CHARGING PORTS

for electric vehicles²



1,300+

buildings with green certifications³



Wisconsin was awarded a

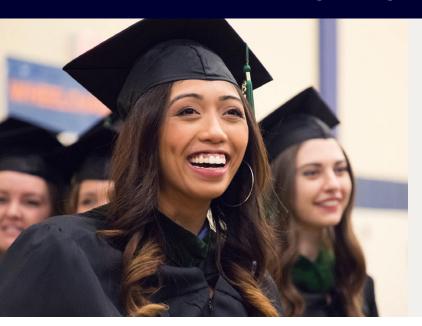
\$62+ MILLION

federal Solar for All Grant

to help fund solar energy systems for low- and moderate-income households.

Sources: (1) U.S. Energy Information Administration; (2) U.S. Department of Energy Alternative Fuel Data Center; (3) Green Building Information Gateway

THE WORKFORCE YOU NEED



4,670

engineering degrees and certificates awarded in 2022

U.S. NCES IPEDS

65,736

engineering graduates from across the Midwest

U.S. NCES IPEDS

Wisconsin is known for its industrious, Midwestern work ethic, and its educational system is universally admired. With a high school graduation rate consistently ranked among the top in the nation, Wisconsin offers a steady pipeline of talent to keep our state at the forefront of innovation and economic growth.

The **Universities of Wisconsin** are regularly cited as leaders in terms of quality and reach, with established leadership in research and talent development. And as the **first state in the nation to develop a technical college system,** Wisconsin has more than 100 years' experience training its workforce to fulfill ever-changing industry demands.

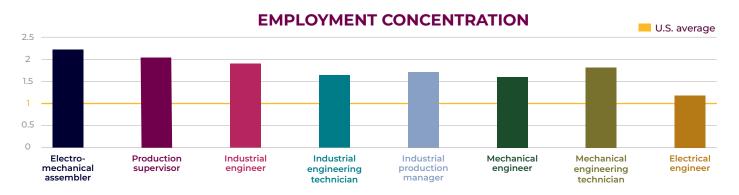
Our 16 technical colleges and 24 universities, with a combined total of 93 campus locations around the state, prepare students to make strong contributions to Wisconsin's economy—and the leaders who hire them.

ADVANCING KNOWLEDGE

In Wisconsin, our universities lead in research and technology commercialization, supporting partnerships, companies, and policymakers to develop new, innovative products that fill market needs. For example:

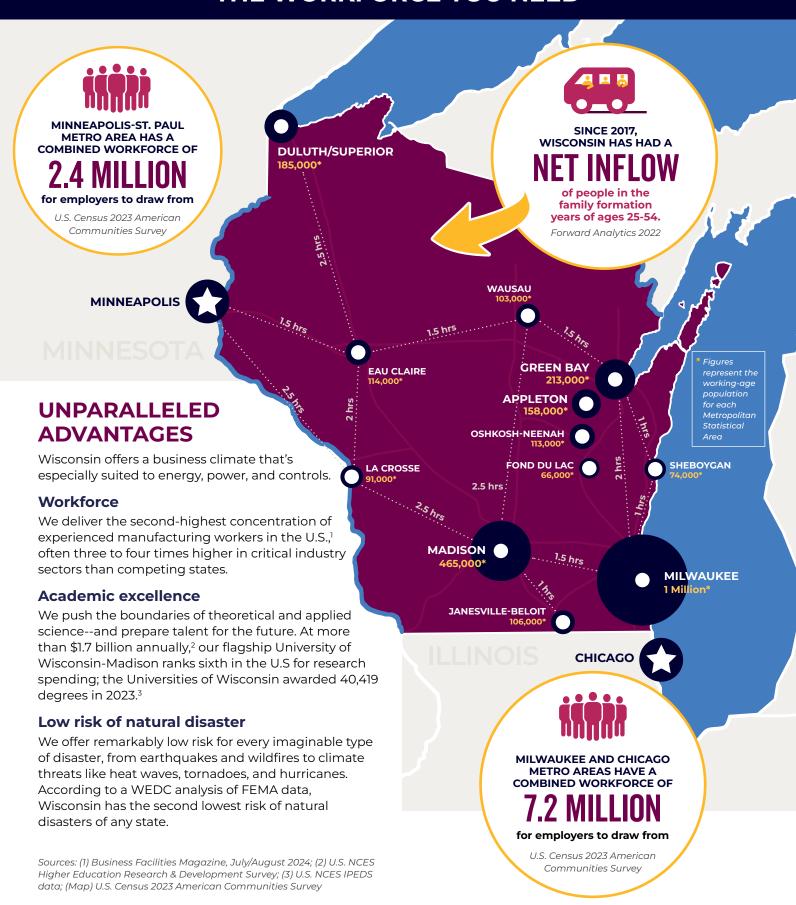
- > UW-Madison and UW-Milwaukee are both **Tier 1** research universities, among the top 4% in the nation.¹
- > UW-Madison ranks in the top 3% of U.S. universities for **engineering research expenditures** and near the top of global rankings.²
- > Ranked in the top 10 nationally for **computer and civil engineering** as well as its undergraduate engineering program, the Milwaukee School of Engineering has always engaged leaders of business and industry.³

Sources: (1) Carnegie Classification of Institutions of Higher Education; (2) U.S. National Center for Education Statistics; (3) U.S. News & World Report

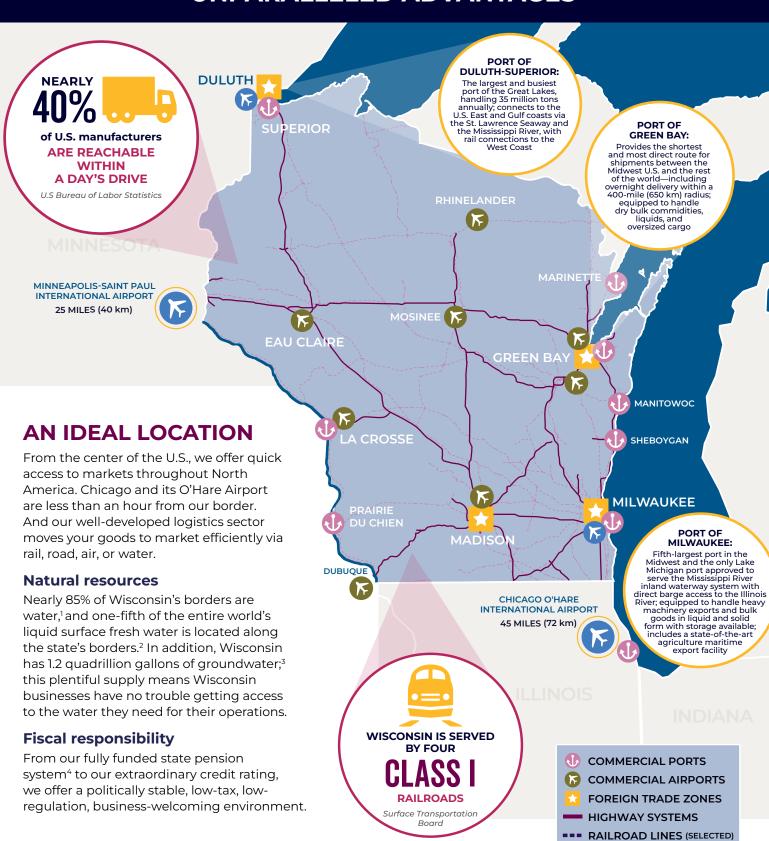


Lightcast 2025 Q1 Dataset

THE WORKFORCE YOU NEED



UNPARALLELED ADVANTAGES



Sources: (1) WEDC analysis using a Wisconsin Department of Natural Resources map; (2) Wisconsin Water Facts, Wisconsin Water Library, UW-Madison; (3) Wisconsin Department of Natural Resources; (4) Wisconsin Department of Employee Trust Funds



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