

STATE OF

Tech²⁰²³nology

NORTH DAKOTA

EMPLOYMENT



The state's technology subsectors employ

21,671

people at more than

4,110

businesses.

GDP



Over the past decade, the contribution of technology subsectors to the state's gross domestic product (GDP)

grew 39%.

WAGES



The average annual wage for technology positions in North Dakota is

42% higher

than the state average.

This biennial report showcases the impact of the state's technology sector and identifies opportunities and challenges within the industry. The data was collected June 2022 by TechND in partnership with Job Service North Dakota. Detailed data can be found at technd.org.



Mission: To promote the use, growth and development of technology in North Dakota

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The technology industry in North Dakota plays an important role in the state's economy. In addition to the contribution of tech businesses, technology is vital to virtually every business, government, education, or nonprofit entity across the state, nation and world. Here is a snapshot of its impact.



EMPLOYMENT

7,010

NORTH DAKOTANS
have technology occupations.

These include jobs in the technology industry but also in other industries, such as agriculture, energy, finance, and health care.

It is estimated
more than

6,320
new and replacement
technology positions
will be needed in
North Dakota over
the next decade.

This includes

940 EMPLOYEES

to fill new
positions
with the
remaining
being replacements.



GDP

Technology businesses
contribute more than

\$3.3 billion
to the state's GDP.



This was **6%**
of the state's
total GDP in
2020.

Total contributions to
North Dakota's
economy over the past
decade by technology
sector employees
account for

\$15 billion
in spending.



GROWTH

JOB GROWTH

in North Dakota's
technology subsectors
increased by
nearly 16%
over the past decade.

North Dakota is
projecting a
13% increase
in technology
workforce needs
over the next
10 years.



With **7,010**
technology positions
currently in the state, this
projected growth means
replacement and new positions
will **EQUAL 90%** of the state's
current technology workforce.

WAGES



The average annual wages for technology positions **increased 57%** over the past decade.

With a median **hourly wage of \$37.50**, North Dakota's technology employees receive wages **higher** than several surrounding states, including Montana and South Dakota, but lag behind Minnesota and the national average.



EDUCATION



Education, government and industry stakeholders are collaborating to address the continued growth in technology and inform students about the career opportunities and education pathways to secure these positions. North Dakota currently offers internship opportunities, a digital academy and more than **60 postsecondary education programs**.

93% of parents want their child's school to teach computer science.

Only 53% of high schools offer it.

CONNECTIVITY



As a national leader in connectivity, North Dakota features:

5G wireless technology that reaches farms, homes and businesses up to **30 miles away** from a fiber network.

65,000+ miles of fiber optic cable.



\$1 billion in infrastructure investment over the past decade.

Gigabit service to:

Every school district, higher education campus and state government building.

More than **75%** of citizens in more than **375** communities.

Technology continues to play a vital role in North Dakota's economy, and the future of the industry is bright. As the industry continues to evolve, collaboration at the state and federal level will allow North Dakota's tech industry to remain a strong competitor in the global economy.

PROGRAMS AND RESOURCES

TechND supports a number of state programs and resources focused on educating and growing the technology workforce and expanding and attracting technology businesses.



BUILDING THE WORKFORCE

Career Builders - ndus.edu/career-builders
Dakota Digital Academy - dda.ndus.edu
Emerging Digital Academy - emergingacademy.org
ND Citizens Skills for All - edutech.nodak.edu/ndcitizenskillsforall
Operation Intern - commerce.nd.gov
Postsecondary Tech Education - ndus.edu
PK-20W Initiative
- ndit.nd.gov/pk-20w-initiative-computer-science-and-cyber-education
Secondary Tech Education - cte.nd.gov

WORKFORCE TRAINING PROGRAMS

Job Service North Dakota - jobsnd.com

- New Jobs Training
- Workforce Innovation and Opportunity Action

North Dakota Department of Commerce

- commerce.nd.gov

- Regional Workforce Impact Program

North Dakota University System - ndus.edu

- TrainND

EXPANDING & ATTRACTING BUSINESSES

North Dakota Department of Commerce

- commerce.nd.gov

- Innovate ND
- Innovation Technology Loan Fund (LIFT)

North Dakota Tax Department - tax.nd.gov

- Angel Fund Investment Credit
- Computer and Telecommunications Equipment Exemption
- Data Center Tech Equipment and Software Exemption
- Internship Employment Income Tax Credit
- New or Expanding Business Income Tax Exemption
- Renaissance Zone Income Tax Exemptions and Credits
- Research Expense Credit
- Seed Capital Investment Income Tax Credit
- Workforce Recruitment Credit

CONGRATULATIONS TO THE TECHND TECHNOLOGY AWARD RECIPIENTS!

2021 PREMIER TECHNOLOGY BUSINESS
OnSharp

2021 TECHNOLOGY INNOVATOR
Emerging Digital Academy

2021 NORTH DAKOTA TECHNOLOGY CHAMPION
Tom McDougall, High Point Networks

2022 PREMIER TECHNOLOGY BUSINESS
Be More Colorful

2022 TECHNOLOGY INNOVATOR
POEM Design

2022 NORTH DAKOTA TECHNOLOGY CHAMPION
David Crothers, Broadband Association of North Dakota

For a full list of past winners,
visit technd.org/Technology-Awards.

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Jamestown/Stutsman Development Corp.
Minot State University
Nexus Innovations
ReadiTech
Stark Development Corporation
United and Turtle Mountain Communications