MINNESOTA STEM ECOSYSTEM

Bridging the Gap

Connecting STEM Learning to the Workforce

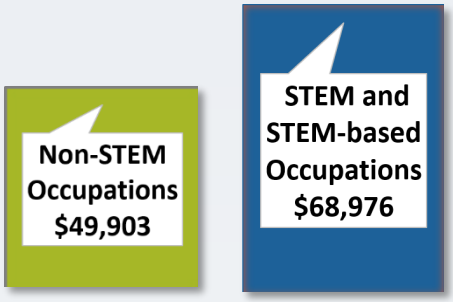
The Jobs Gap

Non-STEM Occupations

STEM and STEM-related Occupations

Over the next 10 years, STEM and STEM-related occupations will grow at a rate of more than 12%![1]

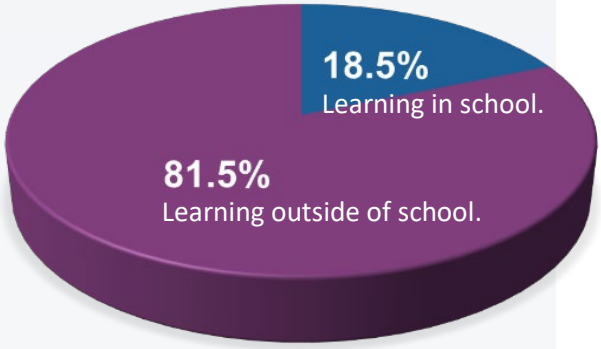
The Wage Gap



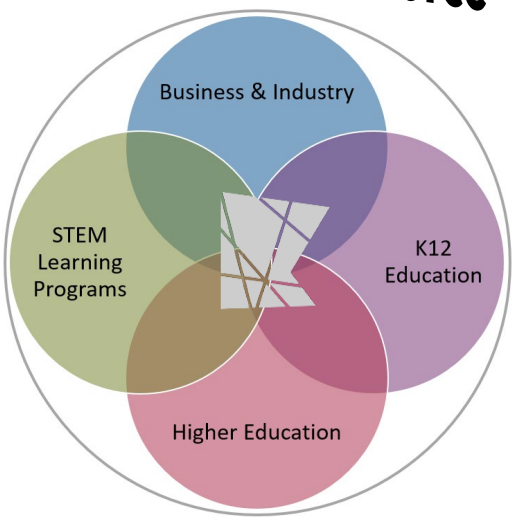
On average STEM and STEM-related occupations pay on average $20,000 a year MORE than non-STEM occupations.[2]

The Learning Gap

More than 80% of learning is done outside of the classroom! AND 81% of students believe experiential, industry-based learning experiences are important![3]



The Minnesota STEM Ecosystem supports STEM learning and workforce development across sectors and systems to coordinate and align statewide STEM learning strategies with Minnesota's workforce needs.



Internships in Greater Minnesota: Through our network of over 50 learning and workforce development partners, we launched STEM internships in key sectors, including Medical, Advanced Manufacturing, and Emerging Technologies.

MN STEM Learning & Workforce Advisory Council: We established a unique cross-sector, cross-system Council bringing together K-12 and Higher Education, out-of-school time (OST) providers, state agencies, and industry partners to develop statewide STEM learning with workforce development strategies.

STEM Career Exploration: Working with our partners, launched hands-on STEM career exploration opportunities that connect students directly with high-demand careers in STEM fields.

Public-Private Partnerships: We are working directly with industry to provide schools and OST programs with tools, and resources to prepare learners for the future workforce.

Connecting OST STEM Programs with Career Pathways: We are collaborating with OST STEM providers to align learning outcomes with career pathways, ensuring students engage in experiential learning relevant to Minnesota's future workforce needs.

Strengthened Regional STEM Networks: We engaged STEM Asset mapping and to develop and support regional STEM networks that connect educators, OST providers, and industry partners.

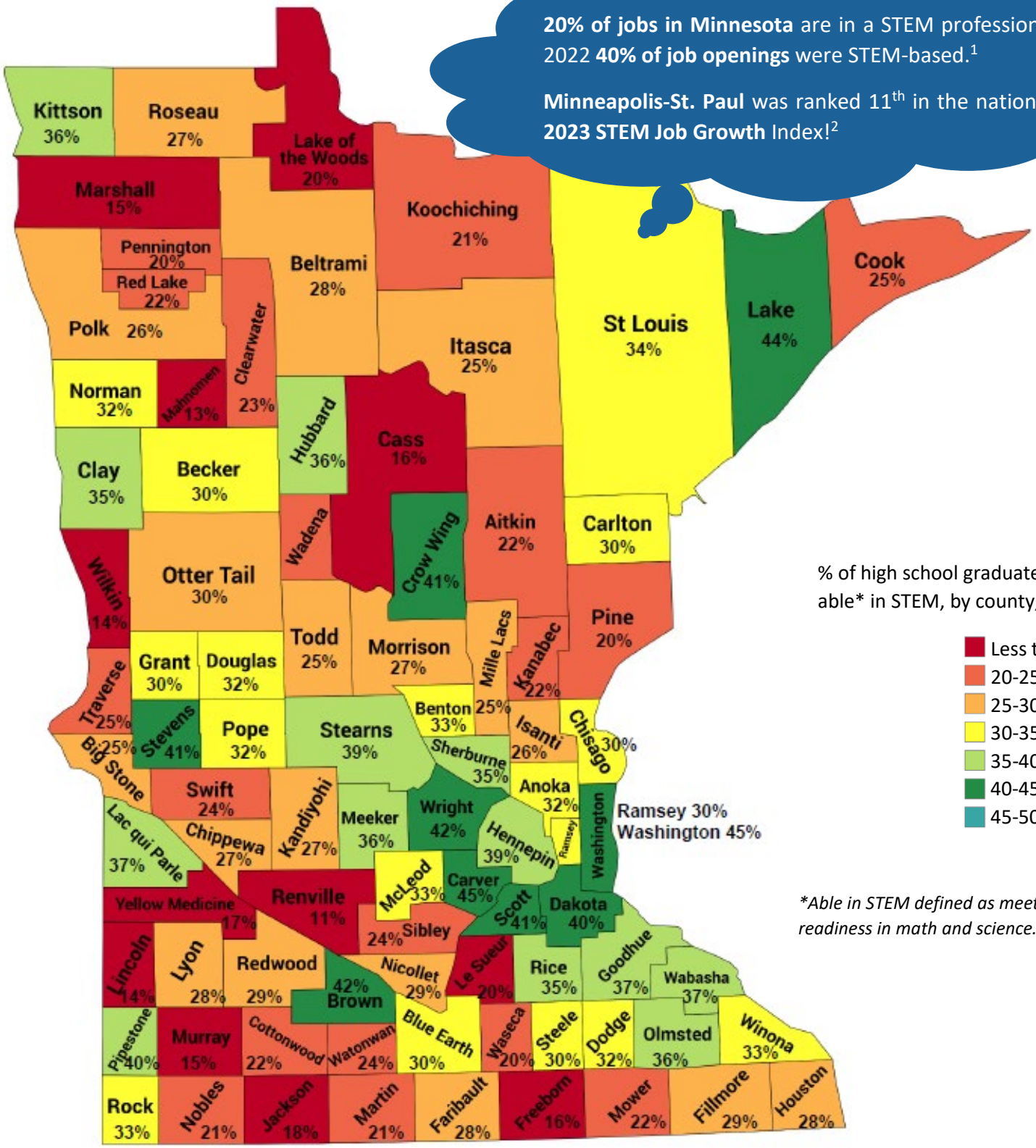
stemmn.org

1 US Bureau of Labor and Statistics
2 The National Science Board- The STEM Labor Force
3 Afterschool Alliance, Minnesota

Is Minnesota STEM Ready?

20% of jobs in Minnesota are in a STEM profession and in 2022 **40% of job openings** were STEM-based.[1]

Minneapolis-St. Paul was ranked 11th in the nation on the **2023 STEM Job Growth** Index![2]



% of high school graduates who are able* in STEM, by county, 2020

- Less than 20%
- 20-25%
- 25-30%
- 30-35%
- 35-40%
- 40-45%
- 45-50%

**Able in STEM defined as meeting college readiness in math and science.*

ACT data by county collected by Minnesota Compass; this data ceased to be collected in the same way during or following the COVID19 pandemic. However, in **looking statewide at the MCA [MN Comprehensive Assessment] for 2024, less than 35% of all high school juniors (11th grade) were proficient in grade level math.**

1 Mn Dept of Employment & Economic Development
2 STEMdex, RCLO