



IT BUSINESS ENVIRONMENT

Minnesota 2014



Top 5 technology states



Strong, active science & technology sector



**Educated
Workforce**



**Innovation &
Entrepreneurship**



Public Policy

IT Action Alliance





H.B. Fuller



GE Capital



Medtronic



Starkey
Hearing Technologies



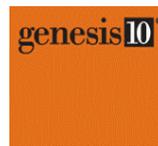
turn results on



DELTA



THOMSON REUTERS



MINNESOTA
PUBLIC RADIO



CenturyLink™

innovosource

shape the future.



Charter Solutions, Inc.



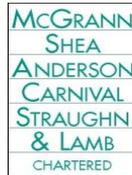
CARLSON™



Quality Field Sourcing



WELCOME TO IT YES.



at&t



Ameriprise
Financial



ALLETE™



Minnesota Computers for Schools
Technology Transformed



viawest

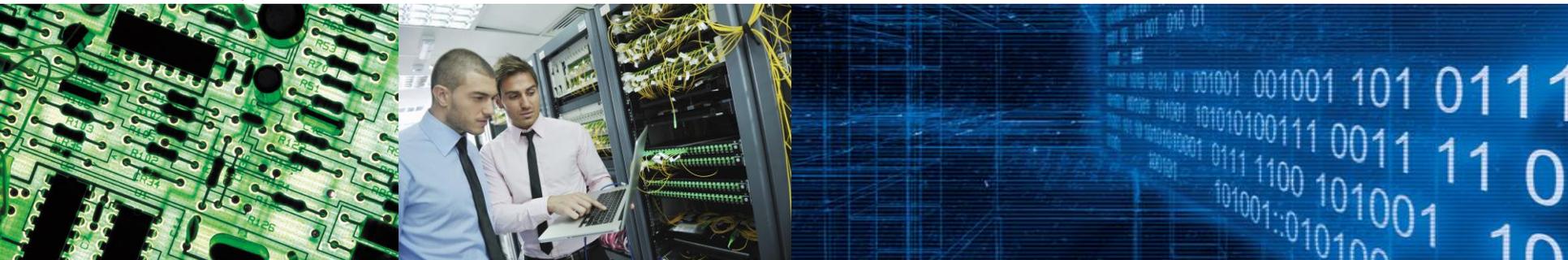


Top 5 IT Jobs in Demand

- | | |
|--------------------------------------|--------------|
| 1. Computer Systems Analysts | 4,644 |
| 2. Software Developers, Applications | 3,923 |
| 3. Computer User Support Specialists | 3,919 |
| 4. Web Developers | 3,701 |
| 5. IT Project Managers | 3,349 |

19,536
job openings

Source: Wanted Analytics 7-14



Minnesota cities with greatest IT demand

1. Minneapolis
2. St. Paul
3. Eagan
4. Eden Prairie
5. Bloomington



13.5% increase in MN's IT
employment by 2019

Top **FUTURE** IT Jobs in Demand

1. Computer Systems Analysts
2. Software Developers, Applications
3. Computer User Support Specialists
4. Software Developers, Systems Software
5. Network and Computer Systems Administrators

Source: MN Department of Employment & Economic



Projected Total Future Openings

18,490

Most current and future occupations will still require a **4 year degree** and at least **one year of experience**

13 of the **top 50** US H-1B Visas are for **IT related jobs.**

ALL of the top five are IT related.

Opportunity for companies
to invest the \$ currently
spent on H1-B Visas in
apprenticeship programs

CHALLENGES

No common credential recognized by the IT industry

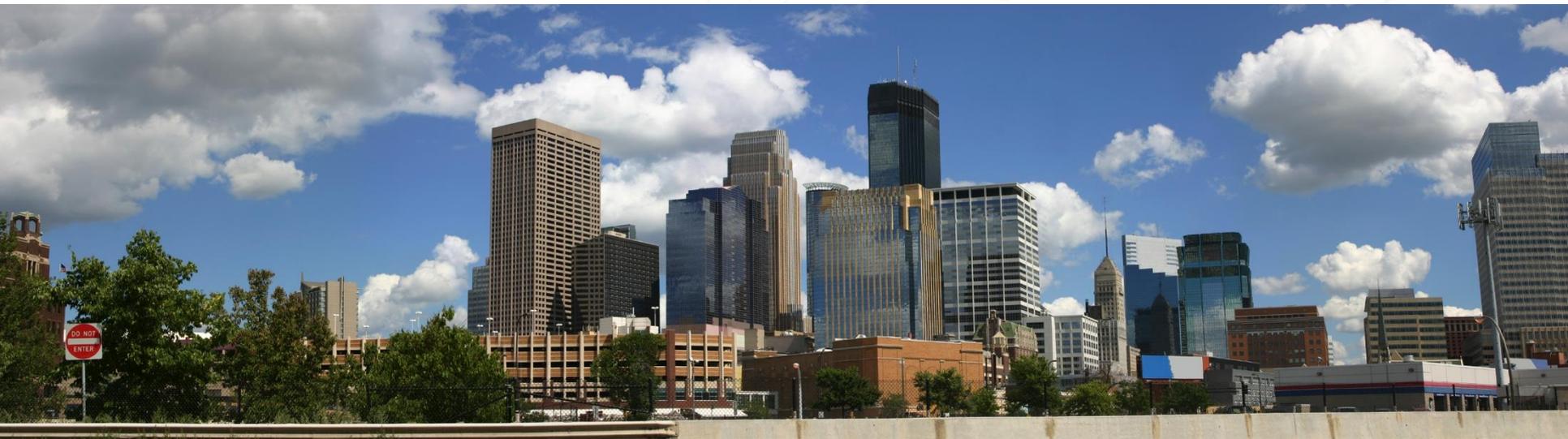
- Over **280** core certifications in **15** categories, not including advance credentials

Outsourcing

- Outsourcing seen as a less risky, short-term solution.

Apprenticeship Challenges

- Descriptions exist only for IT generalist & IT project manager apprenticeships
- IT fields have not embraced Apprenticeship program
- Most IT occupations still require 2 or 4 year degree and some job experience
- Most urgent need is not at entry-level positions
- Employee retention following apprenticeship



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