



**GLOBAL  
DETROIT**

# **Retaining International Students:**

## **Pathway to Silicon Valley**

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**WE Global Network Third Annual Convening  
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**To immigrate is an  
entrepreneurial act**

**--Ed Roberts, Founder  
MIT Entrepreneurship Center**



# GTRI

GLOBAL TALENT RETENTION INITIATIVE  
OF MICHIGAN

**International Talent Retention in Michigan:  
A Pathway to National Competitiveness**



# HIGH-TECH STARTUPS

## Created 25% of all high-tech firms nationally from 1995-2005

- ▶ 52% of Silicon Valley's high-tech firms from 1995-2005
- ▶ 32.8% of Michigan's high-tech firms (ranking Michigan #3 after CA and NJ and making them **six times** as likely to create a high-tech firm)
- ▶ 2012 update placed Ohio's numbers at 23% (ranking the state 9<sup>th</sup> in the nation)

--Duke University and UC-Berkeley



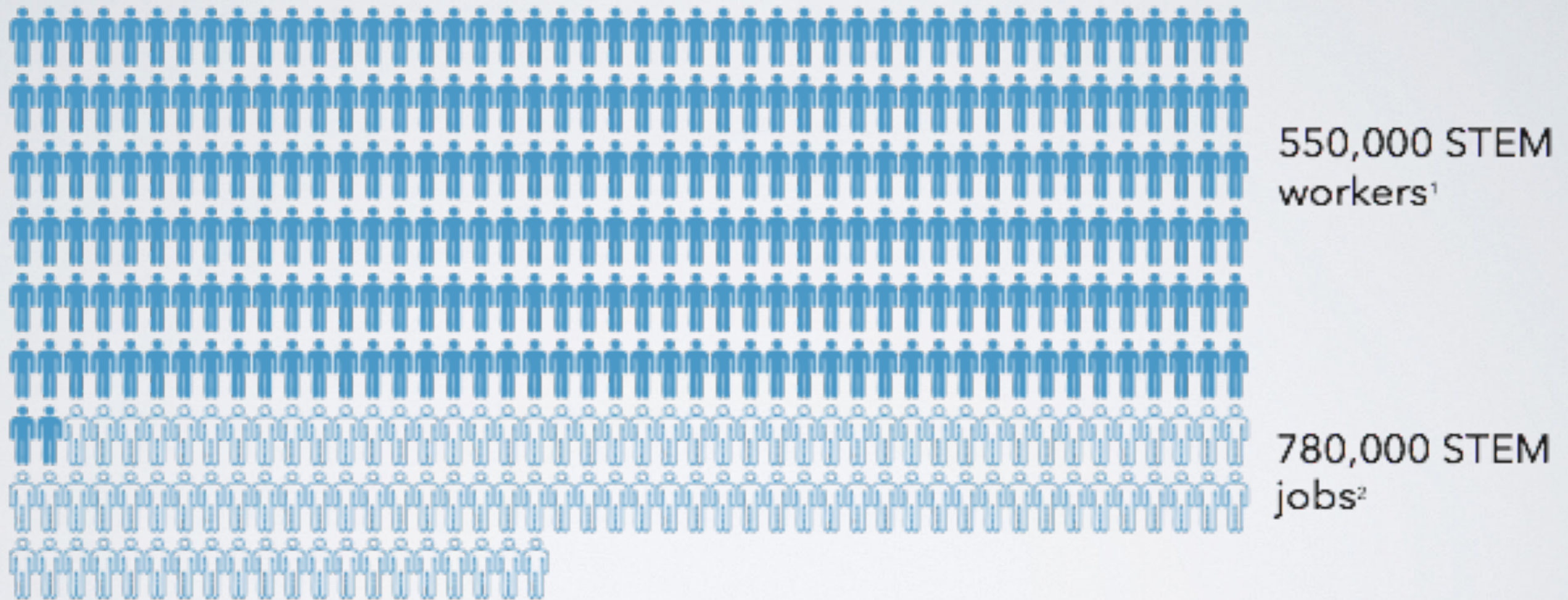
# **SUCCESSFUL VENTURE CAPITAL BACKED FIRMS**


**Account for 25% of all  
venture-backed firms that  
have had public offerings  
1995-2005**


**National Venture Capital Association**



# BY 2018, THE U.S. WILL FACE A PROJECTED SHORTFALL OF 230,000 STEM WORKERS



 2,000 STEM  
DEGREE HOLDERS

 2,000 UNFILLED  
STEM POSITIONS

Sources: (1) Derived from Integrated Postsecondary Education Data System, Department of Education, 2009. (2) Help Wanted: A Projection of Jobs and their Education Requirements, The Georgetown Center on Education and the Workforce.

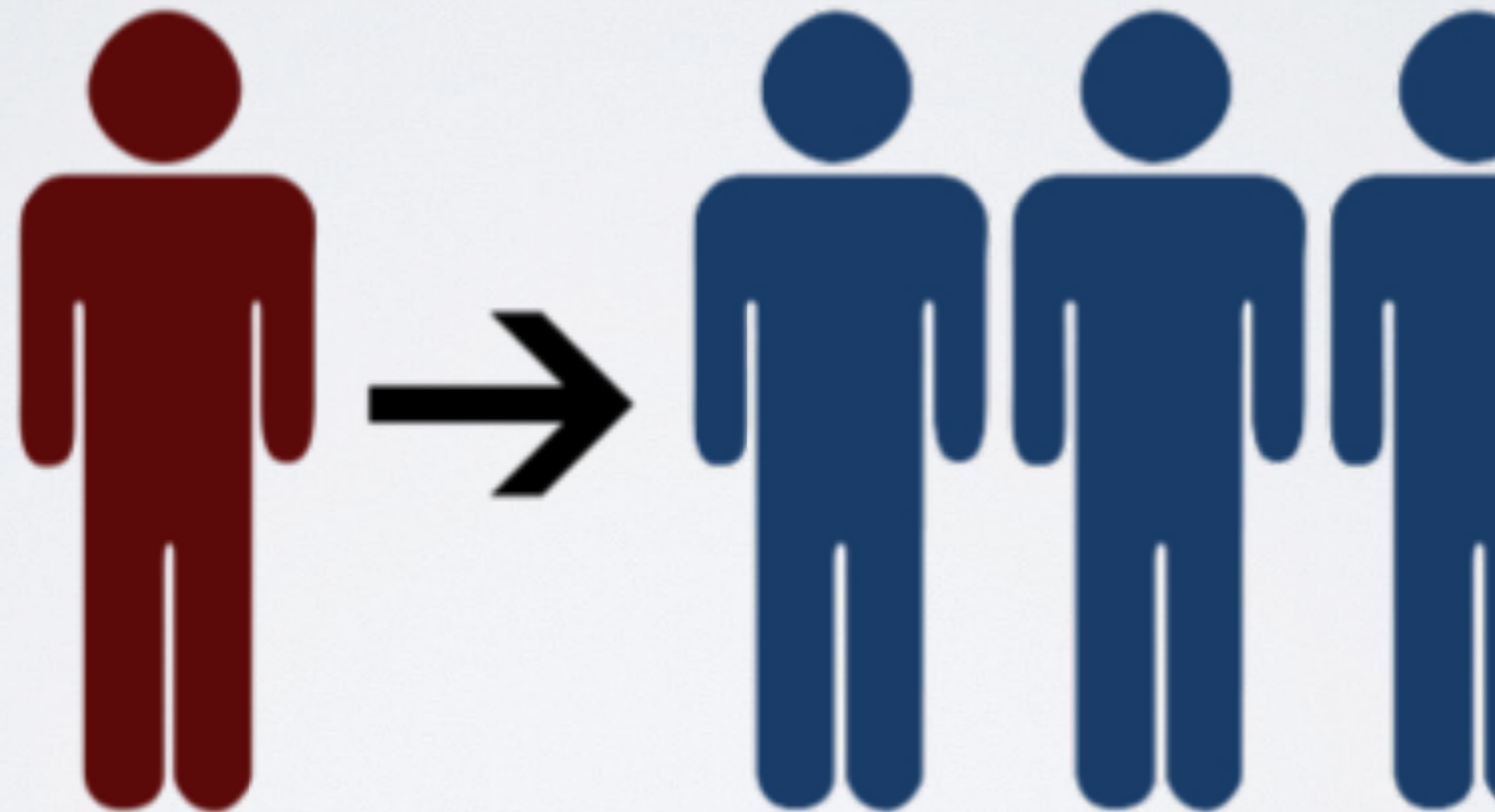
# STEM SKILLS AND DEGREES

- ▶ International students are **3 times** (38% vs. 14%) as likely to major in STEM fields
- ▶ Immigrants make up:
  - ▶ **50%** of all new U.S. Ph.D.s in engineering;
  - ▶ **45%** of all new U.S. Ph.D.s in life sciences, physical sciences, and computer sciences;
  - ▶ **40%** of all new U.S. master degrees in computer sciences, physical sciences, and engineering; and
  - ▶ **25%** of all practicing physicians



# IMMIGRANTS CREATE JOBS FOR U.S. WORKERS

*Every Foreign STEM Worker With an Advanced U.S. Degree  
Creates 2.62 American Jobs*



Source: Partnership and American Enterprise Institute Report, "Immigration and American Jobs," December 2012.



# INTERNATIONAL STUDENT RETENTION



# GTRI

GLOBAL TALENT RETENTION INITIATIVE  
OF MICHIGAN



# International Students in Michigan

Total Number of International Students	29,648
Net Contribution to State Economy	\$927 million
Michigan State University	7,704
University of Michigan - Ann Arbor	7,273
Wayne State University	2,372
Michigan Tech	1,733
Western Michigan University	1,831
Eastern Michigan University	1,020

- Michigan colleges and universities host more than 25,500 international students who contribute more than \$750 million to Michigan's economy each year.
- In at least one methodology, Michigan ranks last (or among the last) of the 50 states in its ability to attract young people aged 25-34. Student retention efforts are critical on all levels, including international students, especially if, as the data suggests, they are very willing to stay in Michigan if provided the legal opportunity to do so.
- Over the last decade, Michigan's immigrants created nearly one-third of all the new high-tech businesses in Michigan—at a rate six times the rest of the population and ranking Michigan third in the country.
- International students are the pathway to becoming the Silicon Valley of the Midwest.
- The Global Talent Retention Initiative was launched to retain international students in Michigan after their graduation. It is the first and only such program in the nation.

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 Global Talent Retention Initiative of Michigan (GTRI)