

AMERICAN WIRE PRODUCERS ASSOCIATION

Gardner Carrick

Vice President

The Manufacturing Institute

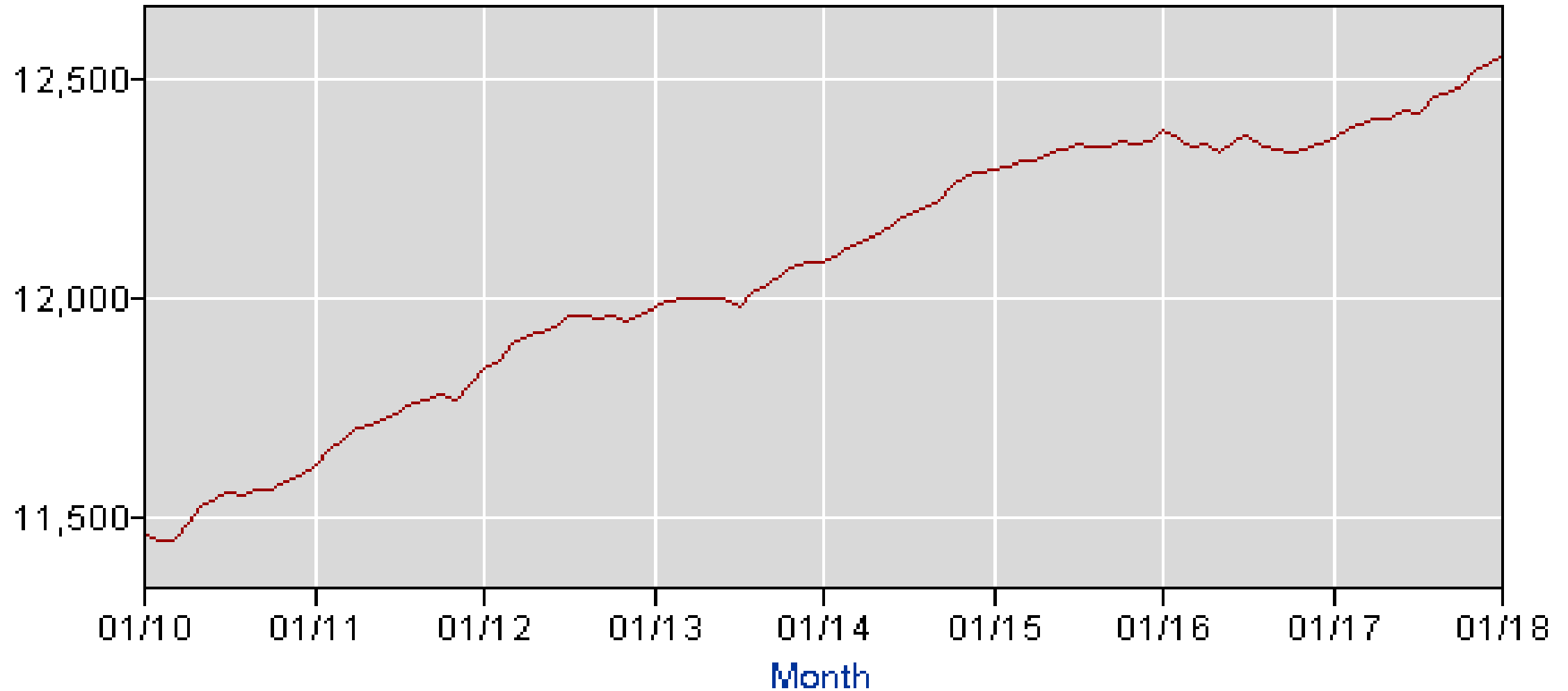
National Association of Manufacturers



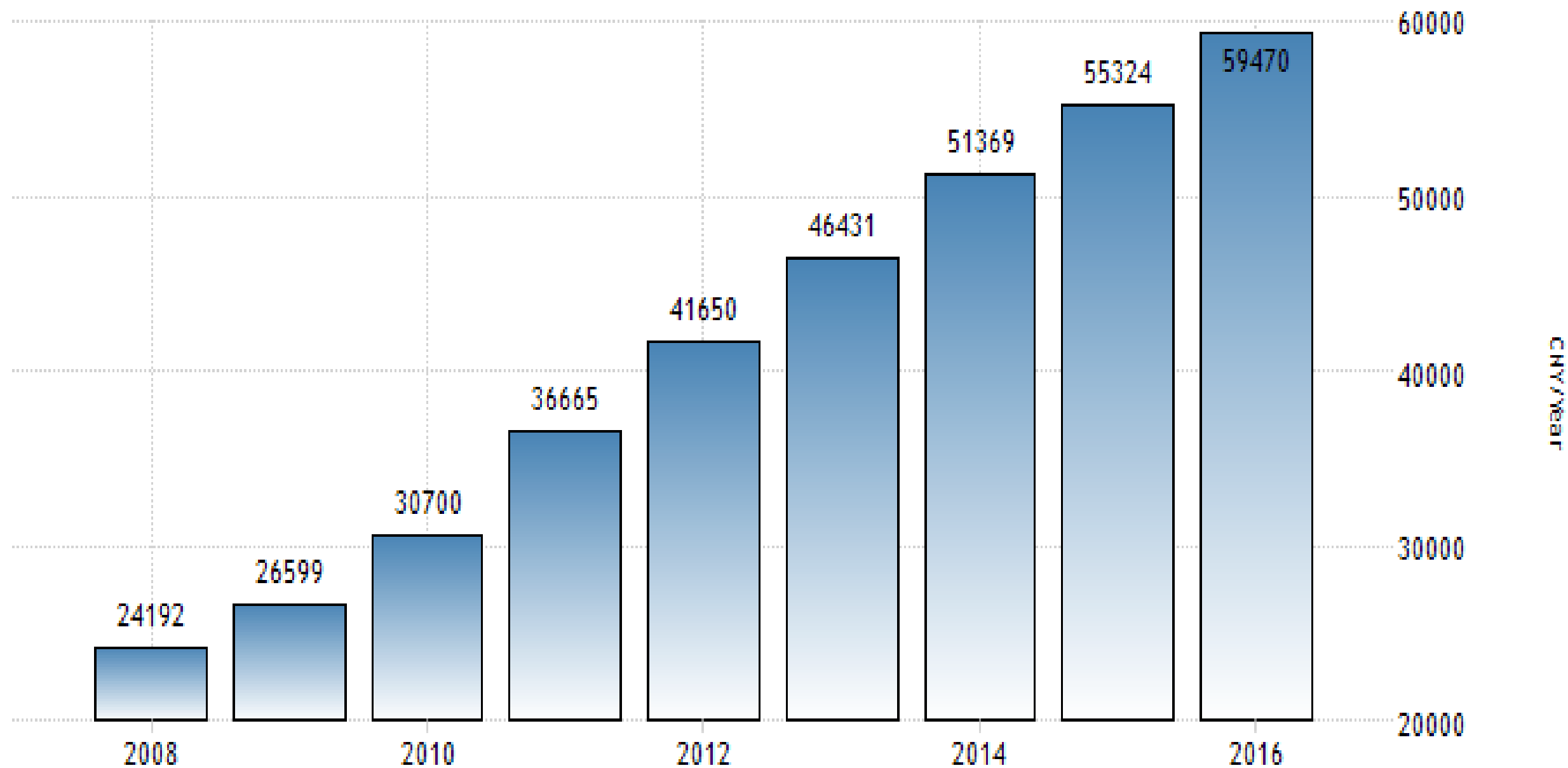
A blurred background of the United States flag, showing the stars and stripes in a soft, out-of-focus manner. The colors are red, white, and blue.

A Resurgence in U.S. Manufacturing!

Manufacturing Jobs



CHINA AVERAGE YEARLY WAGES IN MANUFACTURING



World LNG Estimated Landed Prices: Nov-17



Honeywell International Plans To Repatriate \$7 Billion Back To U.S. Due To Tax Reform

Amgen Plans To Build New \$300 Million Biologics Manufacturing Plant Due To Tax Reform

Kansas-Based Manufacturer Lawrence Paper Company Planning \$5 Million Expansion Due To Tax Reform

Lockheed Martin Announces Construction Of New \$50 Million Facility In Florida

ExxonMobil CEO Announces \$50 Billion Investment In U.S. Due To Tax Reform Law

Ford Investing \$25 Million To Boost SUV Production By 25% At Kentucky Manufacturing Facility

BP CEO On Tax Reform Impact: 'There Is No Doubt We Will Increase Investments In U.S.'

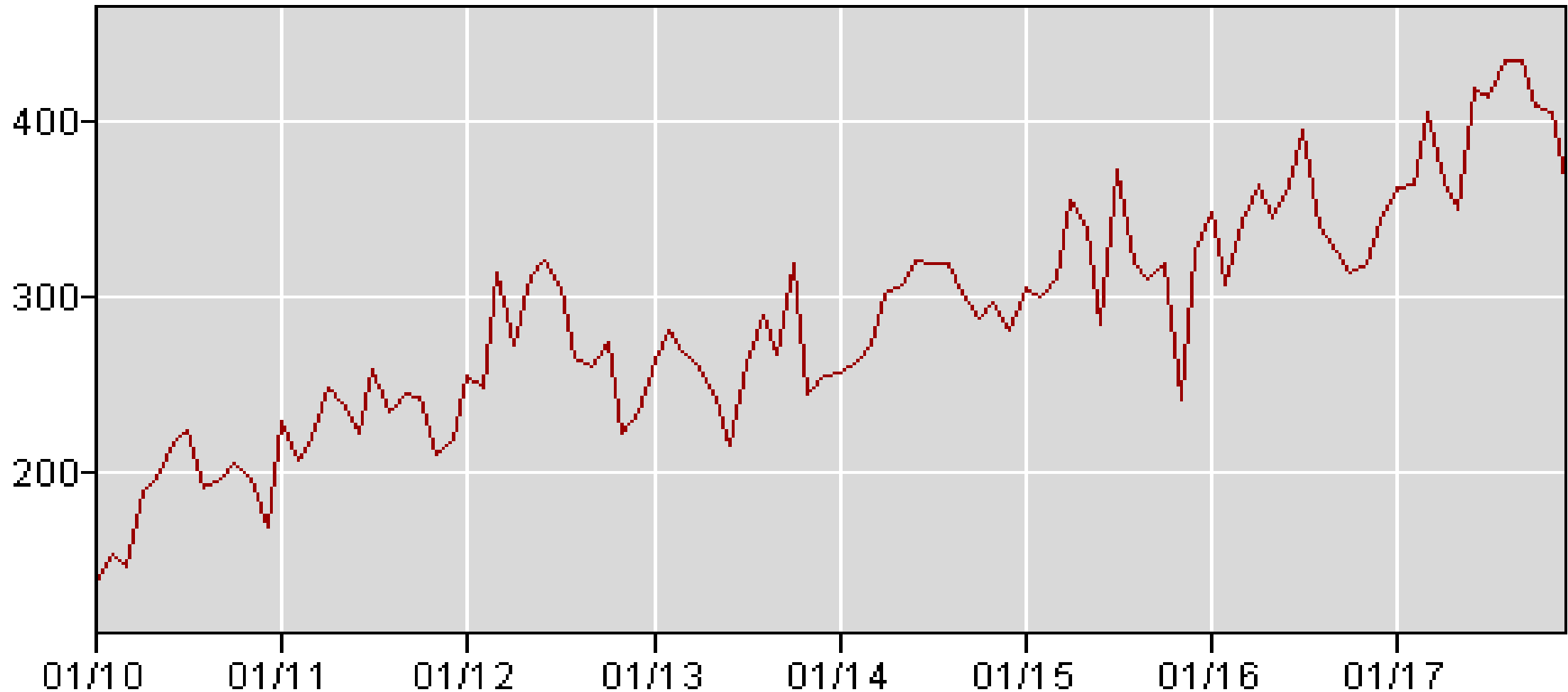
Pfizer Announces \$5 Billion Investment In U.S. Manufacturing and Capital Projects Due To Tax Reform

UPS Is Investing \$12 Billion In The United States Due To The Tax Reform Law

Primary Current Business Challenges



Job Openings in Manufacturing





82% of manufacturers can't find skilled workers

2015

2 Million

2025

are expected to go unfilled due to the skill gap

Manufacturing Does Matter

90% of Americans believe manufacturing is **very important to economic prosperity**

If given an opportunity to create 1,000 new jobs in their community, manufacturing tops the list

1 Manufacturing Facility

2. Technology development center
3. Energy production facility
4. Healthcare facility
5. Retail center
6. Communications hub
7. Financial institution

But Not Personally

30%

of American parents would encourage their children to pursue a career in manufacturing

We are essentially saying...
***“Manufacturing is important,
just not for my kids.”***

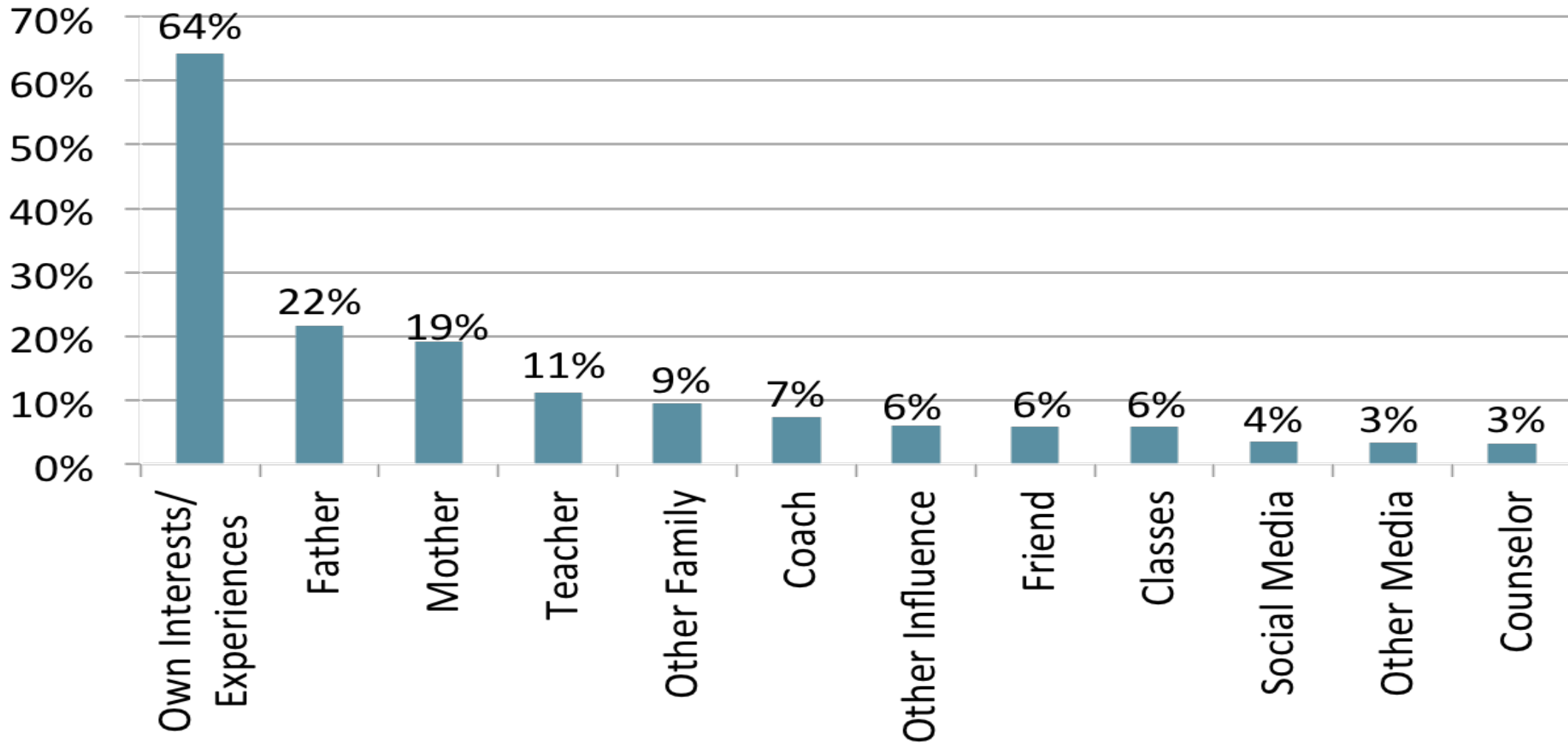
(Mis)Perceptions Cost Us Workers

Overall Respondents		Generation Y (ages 19-33) Respondents	
Industry	Rank	Industry	Rank
Technology	1	Technology	1
Healthcare	2	Healthcare	2
Financial services	3	Financial services	3
Energy	4	Retail	4
Manufacturing	5	Communications	5
Communications	6	Energy	6
Retail	7	Manufacturing	7

MANUFACTURING WORKFORCE – SOLUTIONS



What Influences Careers?



Source: Attracting the Next Generation Workforce, 2015

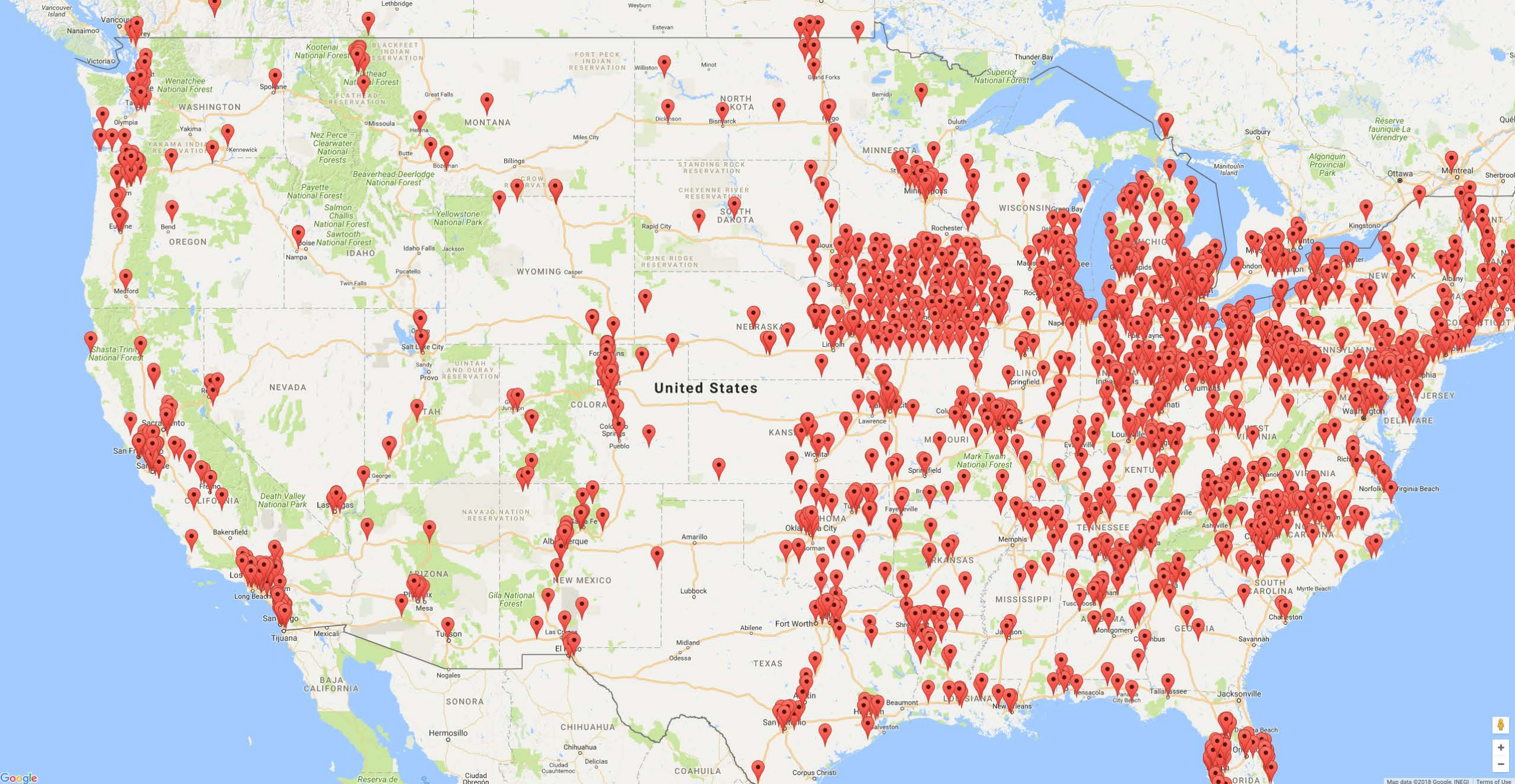


FAMILIARITY = 2X AS LIKELY



October 6, 2017





There are **2,763** MFG DAY events planned in the United States in 2017.

WHAT'S SO COOL ABOUT MANUFACTURING



ABOUT THE CONTESTS

BERKS SCHUYLKILL

CENTRAL PA

CHESTER DELAWARE

LEHIGH VALLEY

NORTH CENTRAL PA

NORTH CENTRAL PA

Viewers Choice vote

March 5-7, 2018

NORTHEAST PA

NORTHWEST PA

PHILADELPHIA

PITTSBURGH CENTRAL

PITTSBURGH EAST

PITTSBURGH SOUTH

SOUTH CENTRAL PA

PA DIDI – IMPACT

LCTI Manufacturing Programs Enrollment

Program	2015-16*	2014-15	2013-14	2012-13
Electromechanical/Mechatronics Technology	41	30	30	31
Electronics Technology/Nanofabrication	47	44	38	21
Precision Machine Tool Technology	79	71	75	58
Welding Technology	69	60	46	38
Drafting/Computer Aided Design	49	46	46	46
Pre-Engineering and Engineering Technology	41	13	16	9
Supply Chain Management & Logistics Technology	84	58	52	51
Grand Total	410	322	303	254

Heroes Make America

- Created new on-base transition training program
- 10-week program
- Combines technical skill & soft skills
- Partnering with companies
- Pilot in Kansas with ability to replicate



STEP Ahead

Goals:

1. Honor leadership
2. Celebrate careers
3. Develop a more diverse workforce
4. Ensure new opportunities
5. Inspire the next generation
6. Showcase *impact*



- The Institute has honored **672 women** in manufacturing.
- STEP Ahead Award winners have impacted more than **300,000 individuals**, from peers in the industry to school-aged children.

STEP Forward

- STEP Forward is part of the Institute's larger STEP Ahead initiative
- Brings this national initiative to your community, offering companies a unique opportunity to strengthen their diversity and retention strategies.

2017 RECAP:

- Davenport, IA
- Hampton, VA
- Cleveland, OH
- Bay Area, CA
- Novi, MI
- Omaha, NE
- Twin Cities, MN
- Google Hangout

STEP FORWARD



Education Programs

- Apprenticeships
- Internships
- School Partnerships
- Certifications



Elements of the NAM Apprenticeship Model

- Quality Assurance
- Verification / Audit
- Technical Assistance
- Enrollment
- Recognition
- Best Practices
- Incentives
- Avoid Conflict of Interest

Legislation

- Perkins – Career & Technical Education
- PROSPER – Higher Education & Apprenticeships
- Infrastructure – Job Training

Contact Information

Gardner Carrick

Vice President

The Manufacturing Institute

National Association of Manufacturers

E-mail: gcarrick@nam.org

www.themanufacturinginstitute.org

 [@TheMfgInstitute](https://twitter.com/TheMfgInstitute)