
WIN
WORKFORCE
INTELLIGENCE
NETWORK
for Southeast Michigan
MI Bright FUTURE

Why do we need to be concerned about the talent pipeline?

MI Bright FUTURE

Career Engagement

71,030 students
Livingston, Macomb, Oakland,
St. Clair & Wayne counties

Occupation	All-Time Student Saves	All-Time Student Saves (Male)	All-Time Student Saves (Female)
Professional Athlete	5,508	4,440	967
Video Game Developer	3,376	2,837	465
Actor	3,346	917	2,293
Doctor	3,169	1,133	1,900
Artist	2,732	800	1,820
Veterinarian	2,693	530	2,039
Nurse	2,687	226	2,330
Lawyer	2,651	1,061	1,476
Psychologist	2,498	392	1,963
Animator	2,475	1,192	1,188
Pediatrician	2,350	207	2,009
Photographer	2,323	478	1,734
Musician	2,131	941	1,112
Singer	2,105	393	1,617
Surgeon	2,104	704	1,318
Fashion Designer	2,096	211	1,777

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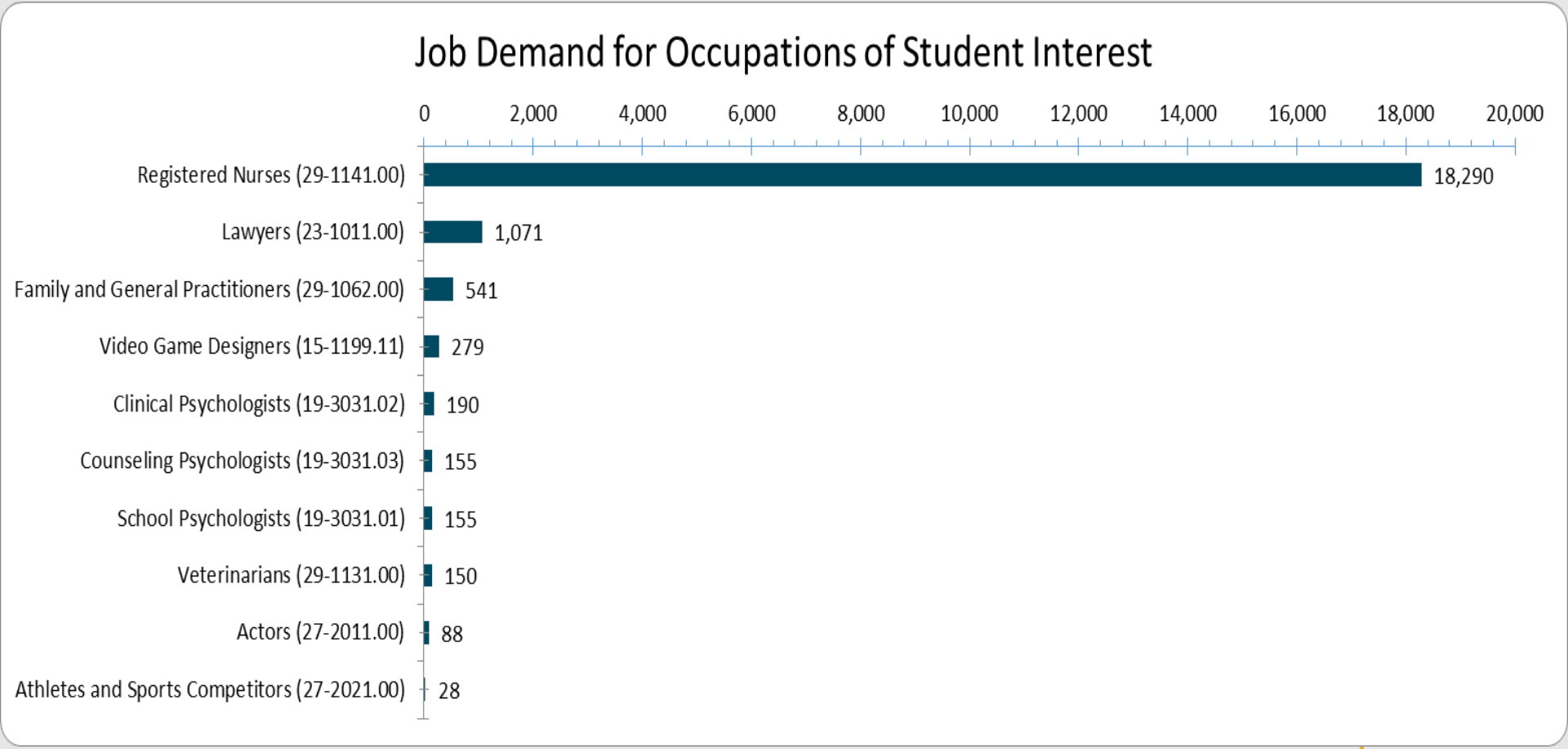

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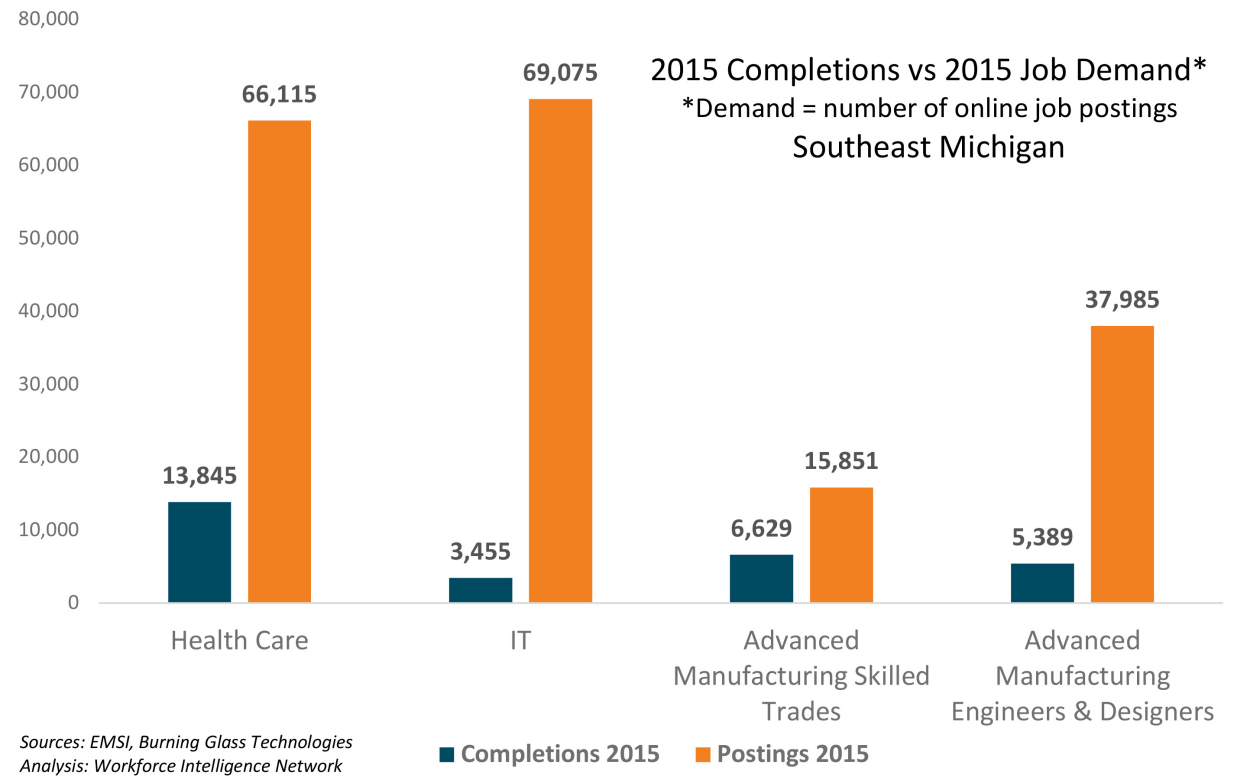
The struggle is real



- Demand is between **2.4** and **20** times higher than the number of new graduates each year.

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THE PROGRAM

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How does MI Bright Future help . . . STUDENTS?

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Detroit Electrical Industry Training Center

Save to My EDP

Background | Activities | Company Discussions

What We're Looking For

17 or 18 years of age with G.E.D. or High School Diploma

Company Details

The Detroit Electrical Industry Training Center provides Apprenticeships for the Electrical Construction Trade. Electrical Apprenticeships are full time jobs and include both hands-on and classroom education in programs of 3 to 5 years. After graduation, the average electrician working for us earns between $6...

Read More

Contact Us

2277 E. 11 Mile Road
Warren, MI 48092
Phone: (586) 751-6600
Website: http://www.detroiteitc.org

Electrical Engineer

Electrical Engineer

Following

Designing high-tech products like microwaves, cell phones, and computers.

Back to Discussion Board | View Career Profile

I have heard of the important of Ohm's law in the field and was wondering if there are any other crucial principles. Also having taken calculus, will the material learned there be built on in further electrical based courses?

Nicholas asked *on 9/16/2016*

Student

Nicholas asked *on 9/16/2016*

I have heard of the important of Ohm's law in the field and was wondering if there are any other crucial principles. Also having taken calculus, will the material learned there be built on in further electrical based courses?

Wayne answered *on 9/20/2016*

There are many crucial formulas and laws in any industry your in - and they'll become second nature to you. Calculus will help you in your engineering equations for sure

Coach

Coaches

JimACS
Title: President
Experience: 35

MattACS
Title: Vice President
Experience: 6

Meg
Title: President
Experience: 7

View full list of coaches »

Following

Electrical Engineer
Updated: 9/20/2016
27 Messages

Related Discussion Boards

Computer Hardware Engineer

Computer Software Engineer

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Industrial Engineer

Industrial Engineer

Follow

Help companies streamline their manufacturing operations as an industrial engineer.

Back to Discussion Board | View Career Profile

Would a four year degree be more desirable than two years of education and some experience to a hiring manager?

Kenneth asked *on 3/17/2016*

Student

Kenneth asked *on 3/17/2016*

Would a four year degree be more desirable than two years of education and some experience to a hiring manager?

Coach

Wayne answered *on 3/18/2016*

Depends on who's hiring and for what. Large corporations want the education. But if you have the interest, ambition and drive, and show it- there are employers out there that can pick you up and train you while you continue your education. A lot depends on the ambition of the individual. You can 'find a job' or you can 'make a career' There is a trend leaning toward more experienced based and/or 2 year degree. The landscape is changing- that's part of why MIBF is here. There are a few 'employers' out there that will probably answer in on this question.... listen to them.

Coaches

Bernadette
Title: Lean Manufacturing Manager

Mike
Title: Master Black Belt

MrKraemer
Title: Directing Manager: Corporate Design, New Technology
Experience: 5

View full list of coaches »

Following

Paralegal
Updated: 10/11/2016
1 Messages

Physical Therapist
Updated: 10/19/2016
1 Messages

Physician Assistant
Updated: 10/10/2016
1 Messages

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Electrical Engineer

Electrical Engineer

Following

Designing high-tech products like microwaves, cell phones, and computers.

Coaches

JimACS
Title: President
Experience: 35

Career Coaches Electrical Engineer Discussions

JimACS MattACS Meg Ryan

Meg is currently a **President** with **7** years of experience in the field.

Partner Bio
I had about 28 years with Chrysler before I started my own consulting firm.

I have experience in:
* Embedded software quality (software in the car)
* Vehicle cyber security (making sure cars can't be hacked)
* Engine and transmission calibration: vehicle performance, driveability, emissions, fuel economy and diagnostics
* High pressure fuel system design: developed high pressure fuel pump. Hold 3 patents.

Association Memberships
SAE International (Society of Automotive and Aerospace Engineers), Society of Women Engineers

Hobbies & Interests
Wakeboarding, wood working

Other Jobs
* Supplier quality: performing root cause analysis on issues with parts. Reviewing manufacturing processes to improve quality and consistency

FUTURE

Other student questions . . .

I understand that to be
a physical therapist
earn a doctor
currently s
schooling. H
it to get int
would be
me in

In terms of a colle
in ship w
internship would be a
good choice if I wasn't
sure what field of
engineering want to do?

I understand a Master's Degree is
go

s an automotive
ngineer, what is the
atio of hours worked
on a computer, to
hand drawn parts, to
building/testing parts
you designed?

a lab
ng lot
om uter
Do you work on a variety
of materials or just a
few?

1,207 exchanges

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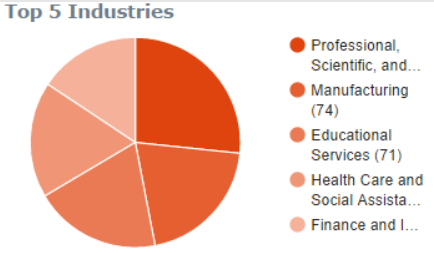

Industry	Count
Professional, Scientific, and Technical Services	97
Manufacturing	74
Educational Services	71
Health Care and Social Assistance	65
Finance and Insurance	57
Management of Companies and Enterprises	52
Public Administration	50
Administrative and Support and Waste Management and Remediation Services	39
Other Services (except Public Administration)	37
Retail Trade	24
Construction	23
Real Estate and Rental and Leasing	22
Information	19
Wholesale Trade	16
Arts, Entertainment, and Recreation	16
Utilities	14
Transportation and Warehousing	11
Accommodation and Food Services	8
Mining, Quarrying, and Oil and Gas Extraction	3
Agriculture, Forestry, Fishing and Hunting	1

Career Coaches

- Easy to get involved
- 20 mins/week <u>or less!!!</u>
- Share experiences
- Tell the narrative

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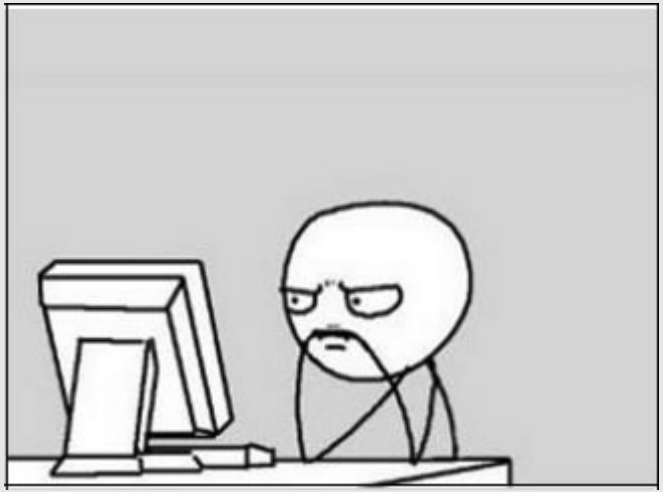
How does MI Bright Future help…
EMPLOYER ENGAGEMENT?



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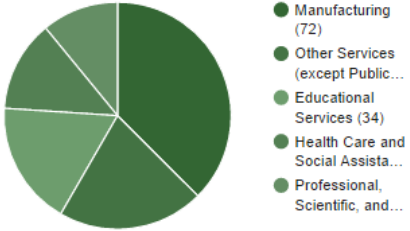
Top 5 Industries



Industry	Count	%
Manufacturing	72	25.9
Other Services (except Public Administration)	40	14.39
Educational Services	34	12.23
Health Care and Social Assistance	25	8.99
Professional, Scientific, and Technical Services	21	7.55
Construction	18	6.47
Information	12	4.32
Retail Trade	7	2.52
Finance and Insurance	6	2.16
Public Administration	6	2.16
Arts, Entertainment, and Recreation	6	2.16
Management of Companies and Enterprises	5	1.8
Transportation and Warehousing	5	1.8
Real Estate and Rental and Leasing	4	1.44
Wholesale Trade	4	1.44
Accommodation and Food Services	4	1.44
Administrative and Support and Waste Management and Remediation Services	3	1.08
Utilities	3	1.08
Agriculture, Forestry, Fishing and Hunting	2	0.72
Mining, Quarrying, and Oil and Gas Extraction	1	0.36

Business/industry engagement

- Diversifying the database of employers
- Representation in all industries
- Adding/updating industries and careers in the system

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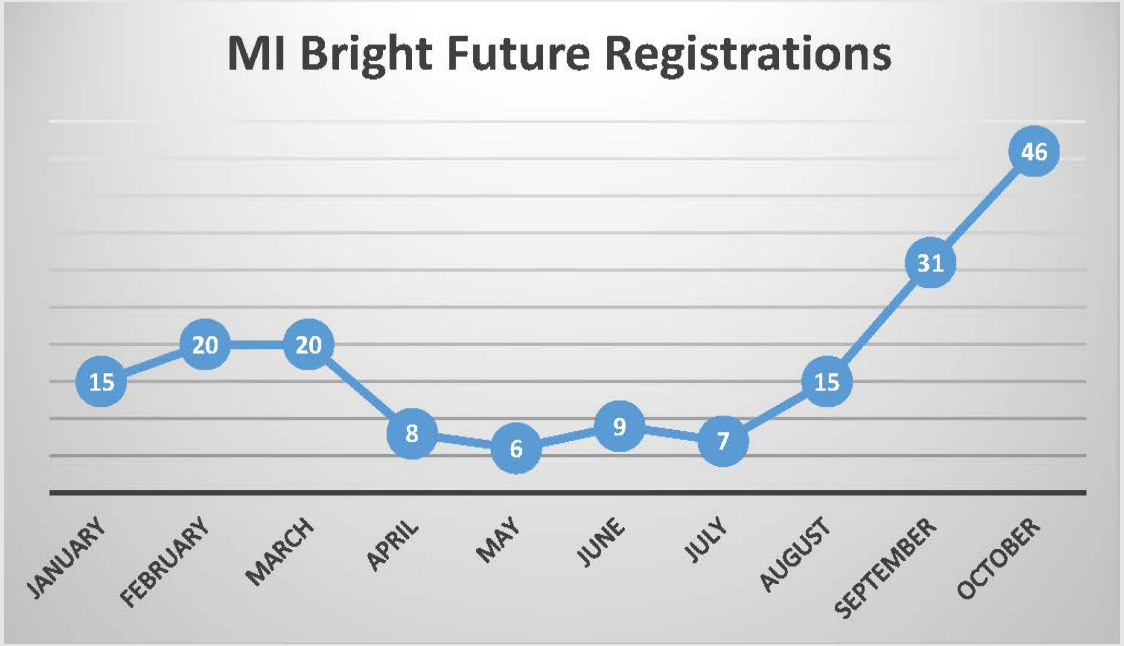
Engagement over time



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Business/industry engagement

Employer/Volunteer Summary (as of 11/9/2016 5:12:22 PM)

219	230	892
Number of Companies	Number of Career Coaches	Number of Work-based Learning Activities

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Employer benefits

- Increased **student awareness** of your company and industry
- Ability to identify **future employees**
- **“Test driving”** talent
- Streamlined, **efficient** engagement with local schools
- **Scalable engagement** based on geography, age group, career interest, organization’s capacity to manage, etc.

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“There couldn’t be a better resource for students to be able to pose questions to individuals actually working in the field they are investigating for a potential career choice.”

-Matt Hackard, Vice President, Automated Control Systems

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EXAMPLES OF EMPLOYER EXPERIENCES

- Built relationship between employer and educator in related field
- Donated equipment to help to enrich the coursework taught in local school
- Provided industry current experience and training for students in talent pipeline
- Hired students from MiBrightFuture for summer internships

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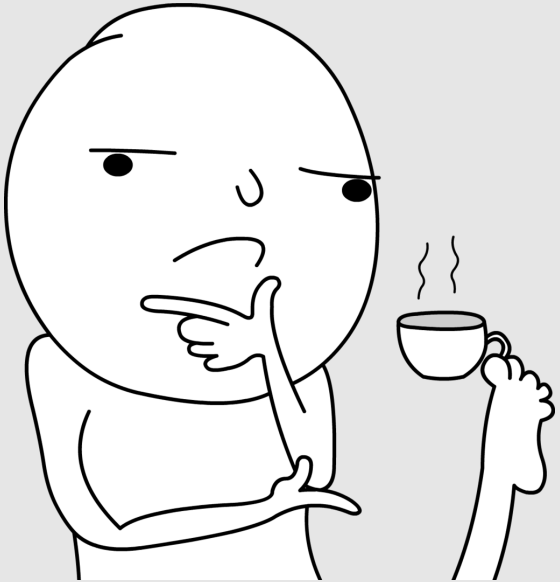
How does MI Bright Future help… EDUCATORS?



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"By having a consistent dialogue with industry professionals my students can stay up to date with industry's ever evolving trends."

"The hope is to have the students learn that their work environment and their projects they are working on in high school are similar to projects they would experience in industry."

-Matt Jourden, Engineering Teacher, Brighton High School

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Student VOICES

"The Career
should look
for more exp
been doing m
-Fran

"As much a
class mat
life impl

-Skylar,
science c
MiBrightFu

"These are people who chose this pathway through college and had personal experience. They can give me an idea of what kind of job I would be able to get coming out of college."

-Cornelius, 17

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Work-based learning options

Student-requested activities

- mock/informational interviews
- job shadows
- Internships
- part-time/summer employment
- career coaching
- apprenticeships
- scholarships
- mentorships
- service learning opportunity

Teacher-requested activities

- guest speaker
- career fair
- company tour/career event
- businesss round table
- summer site visits
- summer externships
- curriculum advisor
- committee members
- project advisor/support

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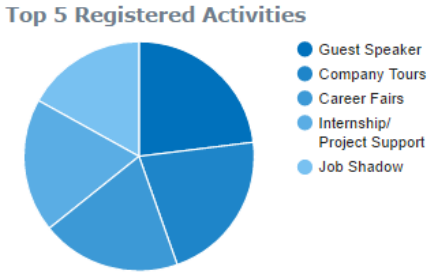
Work-based learning



Activity Type	Count
Guest Speaker	94
Company Tours	88
Career Fairs	80
Internship/Project Support	77
Job Shadow	69
Summer/Part-time Job	69
Interviews	61
Committee Member	58
Apprenticeship	50
Curriculum Advisor	49
Mentorship	46
Competition Judge	42
Summer Site Visit - Teacher	39
Service Learning Opportunities	30
Summer Externship - Teacher	13
Business Round Table	10
Scholarship	8
Volunteer Opportunity	5
Project Advisor & Support	4

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POTENTIAL FOR SYSTEMS CHANGE

- Work-based learning processes in schools
- Employer education
- Employer collaboration and scalable engagement
- Focus on **career and** college readiness

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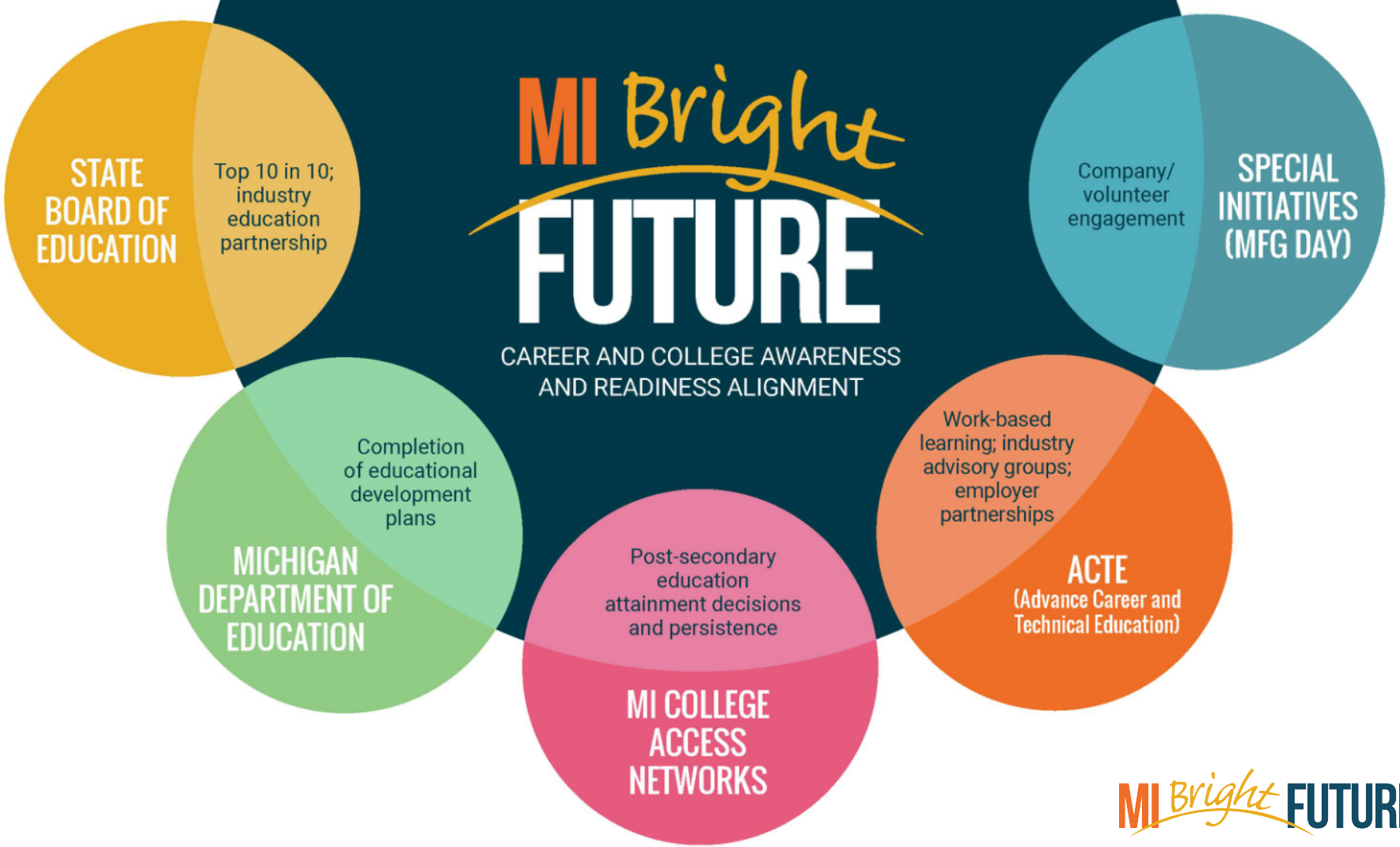

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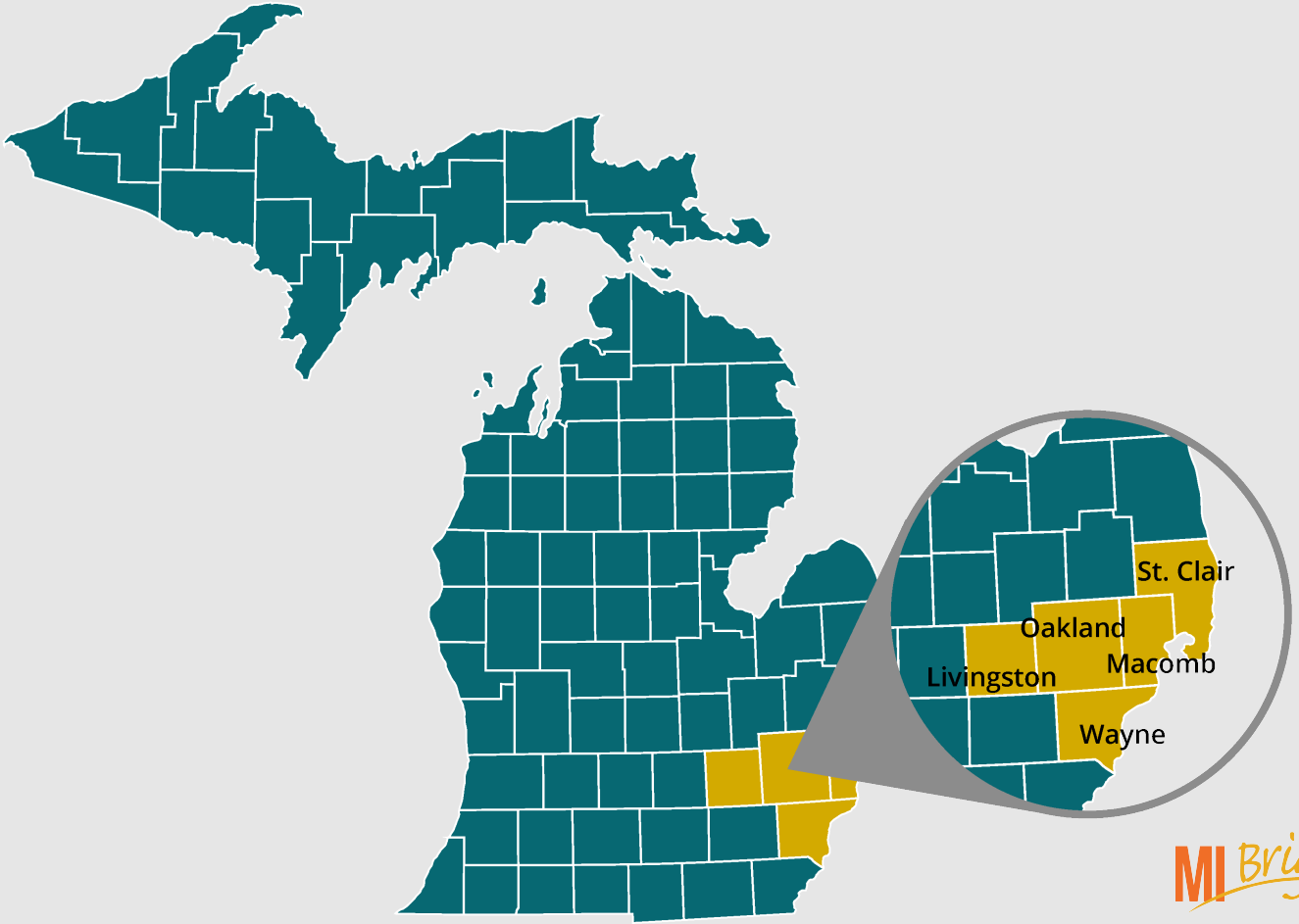
Where we are:



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PARTNERS

Partners

St. Clair County RESA

MISD Macomb Intermediate School District

LESA Livingston Educational Service Agency

Wayne RESA Leading... Learning for All — SERVICE LEADERSHIP COLLABORATION EXCELLENCE

Oakland Schools — Learning today. Transforming tomorrow.

Schoolcraft College

CareerCruising — The Complete Guidance System

Michigan Works! Macomb/St. Clair

Detroit Regional Chamber

Michigan Works! Livingston County

Mott Community College

Macomb Community College — Education • Enrichment • Economic Development

Henry Ford College

SEMCA — Wayne Monroe

Oakland Community College — Community is our middle name.

Livingston Business & Education Alliance

Wayne County Community College District

WIN Workforce Intelligence Network

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Learn more or register at:

MIbrightfuture.org

Contact us:

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