

EUP STEM REGION – A VISION OF COLLECTIVE IMPACT



Eastern Upper Peninsula Region



STEM WORKFORCE

Michigan is a world leader in innovation, talent, and technology

Create a
STEM
culture

Pillar 1

Empower
STEM
teachers

Pillar 2

Integrate
business
and
education

Pillar 3

Ensure
high-quality
STEM
experiences

Pillar 4

Foundation and Infrastructure

THE MISTEM NETWORK

Michigan.gov

LEO HOME CONTACT US SEARCH

The Department of

Labor and Economic Opportunity

JOB SEEKERS

EMPLOYERS

HOUSING

BUSINESS

INSIDE LEO

LABOR AND ECONOMIC OPPORTUNITY / INSIDE LEO / BOARDS, COMMISSIONS & COUNCILS / MISTEM NETWORK

Boards, Commissions & Councils

Asian Pacific American Affairs
Commission

Commission on Middle Eastern
American Affairs

Michigan Future Talent Council
(MFTC)

MISTEM Network

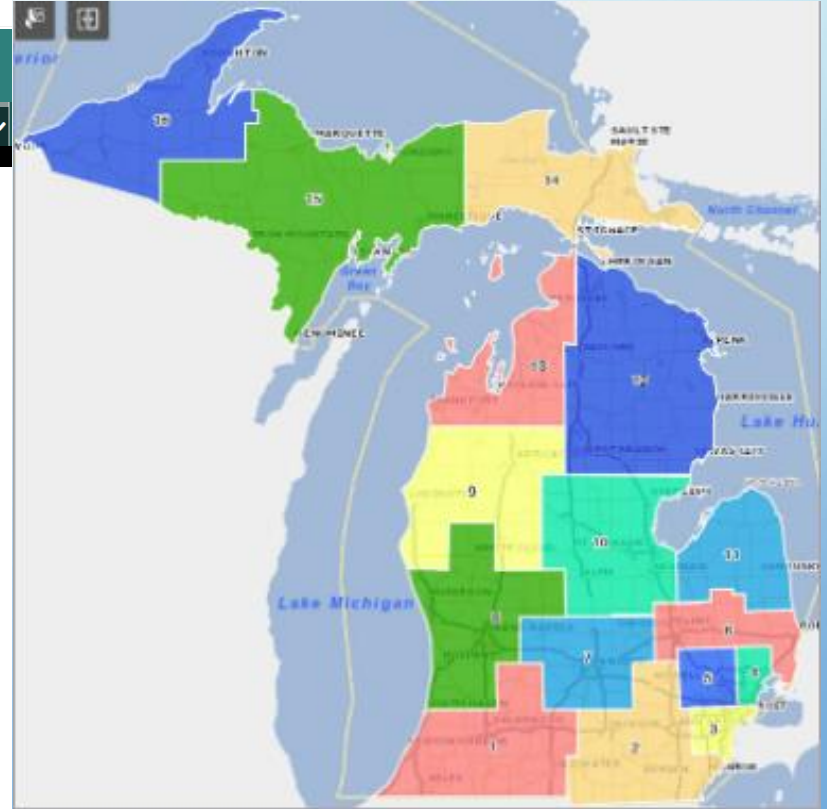
Michigan Council for
Rehabilitation Services

MiSTEM Network



Michigan, together with business, education, and community partners, is embarking on a journey to create a MISTEM Network throughout the state. This opportunity grew out of Governor Snyder's MISTEM Advisory Council recommendation to make Michigan a world leader in STEM education. The Council report lists four pillars as necessary components to establish a system that will produce STEM-equipped students and educators. These pillars are: create a STEM culture, empower STEM teachers, integrate business and education, and ensure high quality STEM experiences. The work of the MISTEM Network is to build on existing STEM networks to create a STEM ecosystem that supports and implements the components outlined in the four pillars.

Per Public Act 108 of 2017 Section 99r, the MiSTEM Network Plan was submitted by the MISTEM Network Committee on December 1, 2017. In order to view the full functionality of the report, we recommend that readers view it electronically.



EUP STEM REGION Advisory COUNCIL

Developing Talent through Collective Impact



Superior Fabrication Company LLC



COLLECTIVE IMPACT



Cross Sector effort to
solve a common problem



Uses an organized
structure of collaboration

REVIEWING THE EUP STEM REGION MISSION DEVELOPED BY THE REGIONAL ADVISORY COUNCIL



- THE EUP STEM REGION ADVISORY COUNCIL IS A COLLECTION OF INDIVIDUALS REPRESENTING PK-12 EDUCATION, HIGHER EDUCATION, THE BUSINESS COMMUNITY, AND A VARIETY OF OTHER COMMUNITY GROUPS.
- THE MISSION OF THE COUNCIL IS TO:
 - DEVELOP AND PROMOTE ROBUST AND MEANINGFUL STEM EDUCATION AND CAREER OPPORTUNITIES IN THE EASTERN UPPER PENINSULA

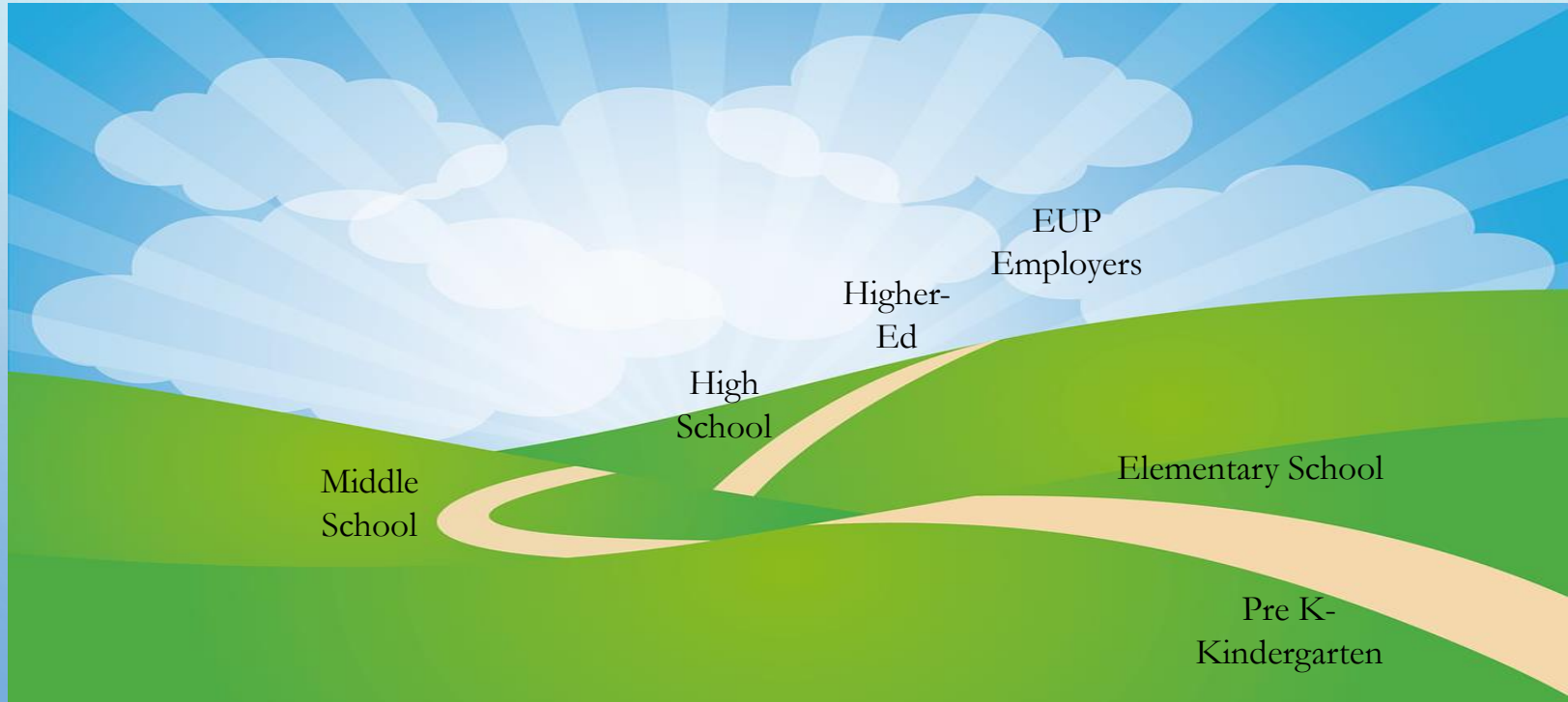
"The Comfort Zone"



@executivemedia group

SAFE
SPACE/BRAVE
SPACE

IDENTIFYING AND DEVELOPING STEM ROADMAPS



BUILDING CONNECTIONS ALONG THE STEM ROADMAPS

- GAPS
 - K-5 CLASSROOM VISITS
 - 3-8 FIELD TRIPS
 - STEM EVENTS (MANUFACTURING DAY, SCIENCE AND ENGINEERING FAIR)
 - 6-12 JOB SHADOWING
 - 9-12 INTERNSHIPS AND APPRENTICESHIPS
 - POST SECONDARY OPPORTUNITIES 12+



TEACHER EXTERNSHIPS

- CONNECTING TEACHERS WITH LOCAL BUSINESSES, ORGANIZATIONS AND HIGHER EDUCATION PARTNERS
- TEACHER PERCEPTION: "THE EXTERNSHIPS ARE ONE OF THE MOST EFFECTIVE WAYS FOR ME TO LEARN HOW TO BETTER TEACH MY STUDENTS. IT'S HANDS-ON LEARNING FOR ME THAT I CAN BRING TO MY CLASSROOM....WHEN ALL EXTERNSHIP PARTICIPANTS SHARE ABOUT OUR EXPERIENCES, I LEARN ABOUT WHAT THEY DID AND ABOUT OTHER OPPORTUNITIES FOR MY STUDENTS."

Math in Manufacturing

Precision Edge[®]
Surgical Products Company LLC

Skills needed to work at
Precision Edge Surgical Products Company
Sault Ste. Marie, Michigan

Teacher Externship Program-Mary O'Connor-Summer 2018



CTE GROWING IN THE EUP

2016-2017 8 CTE PROGRAMS AT SAULT AREA CAREER CENTER

2019-2020 17 PROGRAMS IN THE EASTERN UPPER PENINSULA



2019-2020 CTE OFFERINGS IN THE EUP

- BRIMLEY- NATURAL RESOURCES - LSSU
- ENGADINE - WOODWORKING MANUFACTURING
- NEWBERRY - CONSTRUCTION
- PICKFORD - CYBER SECURITY
- RUDYARD - MECHATRONICS
 - WOODWORKING MANUFACTURING

2019-2020 CTE OFFERINGS IN THE EUP

SAULT AREA CAREER CENTER –

- AUTOMOTIVE TECHNOLOGY
- BMMT ACCOUNTING/FINANCE
- BMMT ADMINISTRATIVE
- BMMT TECHNOLOGY
- CONSTRUCTION
- DRAFTING
- EMERGENCY MEDICAL SERVICES
- HEALTH SERVICES
- MACHINE TOOL TECHNOLOGY
- WELDING

ADULT CTE OFFERINGS 107 PILOT PROGRAM

- WELDING
- MANUFACTURING
- CERTIFIED NURSING ASSISTANT
- AUTOMOTIVE
- MICROSOFT

CTE/STEM SPONSORED EVENTS

- 2019-2020
 - OCTOBER 18 MANUFACTURING DAY – LSSU
 - NOVEMBER 1 VOCATIONAL TRAINING INFORMATION FAIR – ST. IGNACE
 - DECEMBER 6 EUP SCIENCE AND ENGINEERING FAIR – LSSU
 - WOMEN IN MANUFACTURING – NORTHERN MICHIGAN UNIVERSITY
- 2018-2019
 - TRADES DAY – NEWBERRY
 - WOMEN IN MANUFACTURING – NORTHERN MICHIGAN UNIVERSITY
 - ENTREPRENEURSHIP TRAINING

CONTACTS

- TAMMY RUTLEGE (TAMMYR@EUPSCHOOLS.ORG)
- KEVIN ST. ONGE (KEVINS@EUPSCHOOLS.ORG)