

MiSTEM Advisory Council Grant Technical Assistance

November 12, 2020

Mission

Be the catalyst for equitable access and engagement in authentic STEM experiences in every community in Michigan.

Vision

Michigan is home to a generation of innovators who create more inclusive and prosperous businesses and communities.



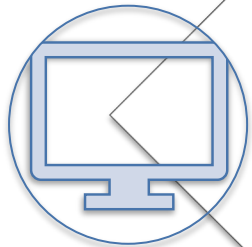
Strengthen the Network

- Address disparities across the system
- Continue the development of problem-, place- and project-based learning (3-P learning)
- Inspire learning through community partnerships



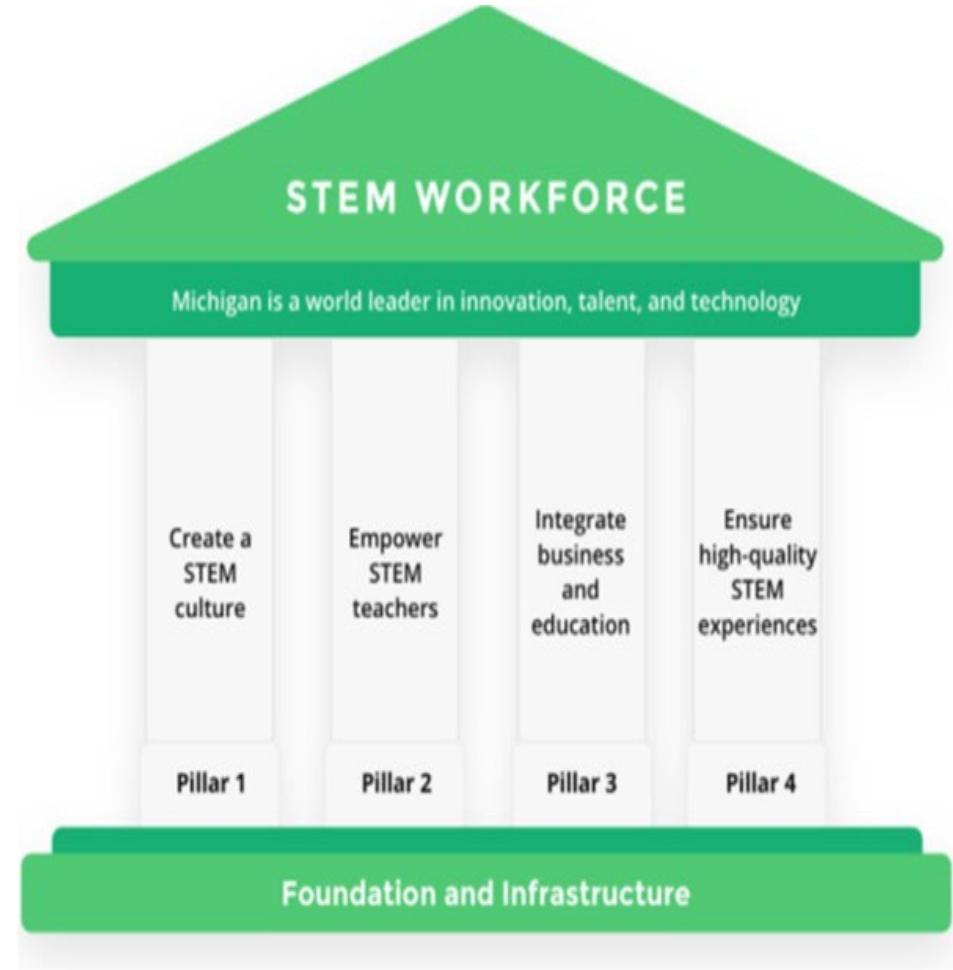
Contribute to the COVID-19 Response

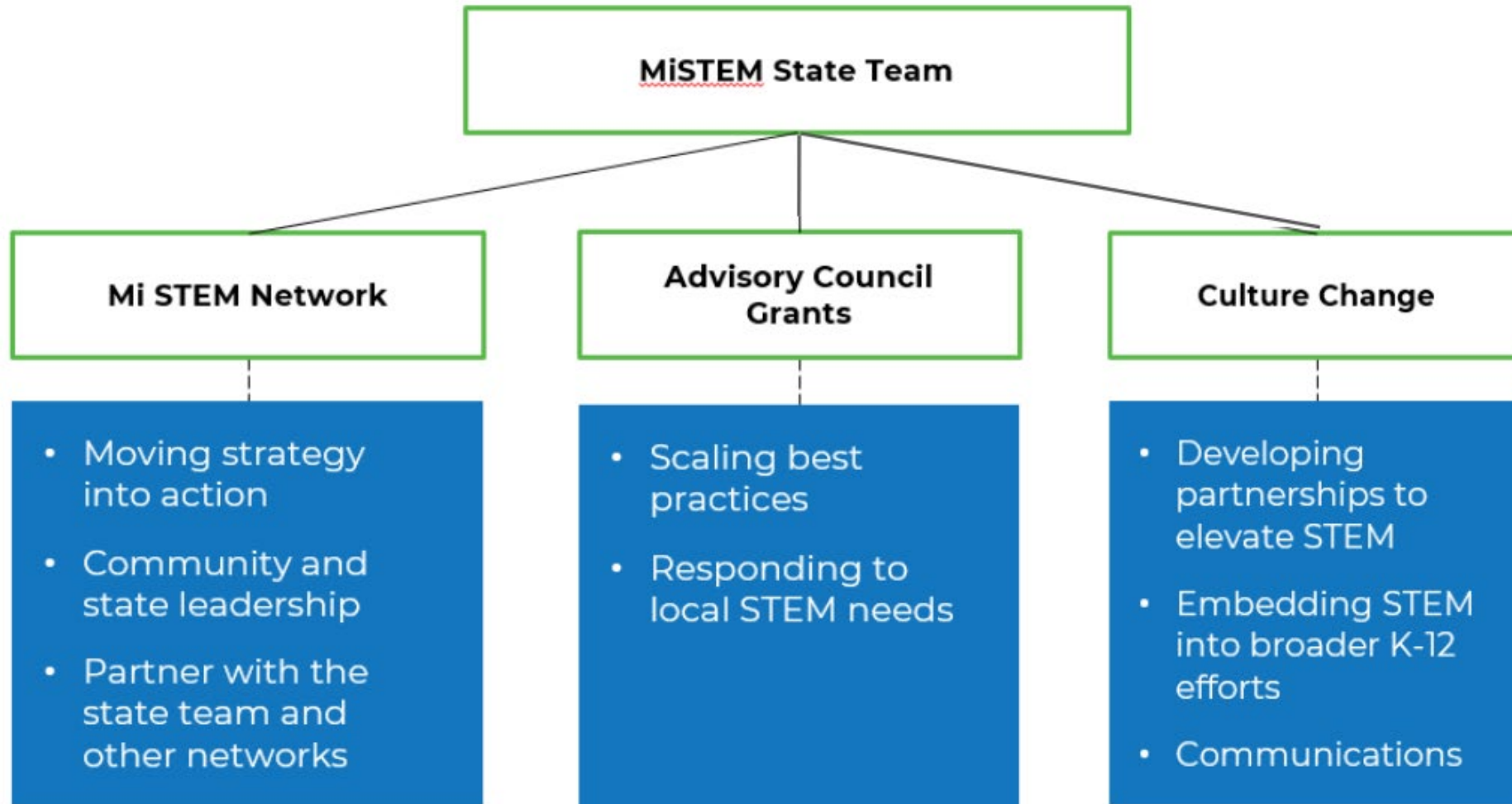
- Allow grantees to be responsive
- Collaborate to support diverse environments where students are learning
- Provide tools for STEM educators and districts



Elevate Computer Science

- Award grant funds to support computer science
- Partner with DTMB to increase access to real-world computer science experiences
- Collaborate with partners, especially MDE and school districts statewide, to systematically increase access to computer science





- MiSTEM Advisory Council makes specific funding recommendations
 - Align with state's academic standards
 - STEMworks Certified program
 - Provides:
 - project-based experiential learning
 - student programming, or
 - educator professional learning experiences
 - Represent all network regions
 - Represents at least 1 program in the following areas:
 - Robotics
 - Computer science or coding
 - Engineering or bioscience

- Awardees recommended to MDE: October 6, 2020
- Consortium Application available in MEGS+:
November 12, 2020
 - Formula grant based by region
- Technical Assistance Meeting: November 12, 2020
- **Consortium Applications Complete: December 18, 2020**
- **Grant Expenditure Period: October 1, 2020 - September 30, 2022**
- **Interim Report Due: October 29, 2021**
- **Final Expenditure and Program Report Due: October 31, 2022**

Eligible STEMWorks Consortia and Fiscal Agents

Program	Fiscal
Code.org	Grand Valley State University
ASU Modeling Instruction	Oakland Schools
Math Recovery	Northern Michigan University
NGSX	Washtenaw ISD
Great Lakes Stewardship Initiative	Copper Country ISD
Mi-STAR	Michigan Technological University
Cereal City Science	Eastern Upper Peninsula ISD
Camp Invention	Grand Valley State University
Engineering is Elementary	Traverse Bay Area ISD
Phenomenal Science	Oakland Schools
Imagine Math	Alpena-Montmorency-Alcona ESD
Robotics Education & Competition Foundation	Huron ISD
STEM Equity Pipeline	Shiawassee RESD
PLTW	Kalamazoo RESA
Ten80	Washtenaw ISD

Application Walk Through

Consortium Members

- List only the contributing partners for the work
- At least one of each:
 - MiSTEM Network Region
 - LEA/ISD/IHE [eligible to receive state school aid dollars]
 - Community Partner
 - Non-educational
- List of districts, ISDs, IHEs, workforce developers, economic developers, community organizations, regional employers, and/or business associations, etc.
 - Organization
 - Point of Contact
 - Role within the Project

- Each partner must submit a letter of support/commitment that consists of:
 - Statement of commitment/support
 - Why, what, how support will be represented [plan of work]
 - How support/commitment aligns to the pillars & priorities
 - Discuss the importance of this work as part of the STEM ecosystem

Timeline	Activity/Task Description	Cost (denote funding source)	Staff/Partner Responsible	List Pillar 2 and/or 3 and the Advisory Council Priority Area Alignment
----------	---------------------------	------------------------------	---------------------------	---

- Address number of teachers and/or students proposed to be served

Address equity issues, including clear consideration of marginalized, historically underrepresented or historically underserved populations

- Need Statement Components:
 - Focus on one issue/topic,
 - Uses data and comparative statistics,
 - Connects to qualitative data, and
 - Highlights the gap that is being addressed
- Consortium members provide the key data
 - Upload any relevant data sources

Sample Needs Statement

- This is a quality starting point—would build on with summary statements and official data from across the consortium.

After reviewing regional data; 75% of district mathematics scores in the region fall below the state average on the MSTEP and PSAT/SAT. -

Data

Elementary mathematics scores show the largest gap. - **One**

Issue/Topic

We are choosing to focus on elementary mathematics because a solid foundation in mathematics at this level is a strong predictor of future mathematics achievement and success. - **Gap that is being addressed.**

Workforce development indicated that mathematics literacy is a key need for employment in the region. - **Qualitative Data**

- Primarily looking for a description of how the selected STEMworks program addresses the needs outlined
 - the STEMworks program may not meet all the needs outlined
 - i.e. partner with REMC to build in the microcredentials, partner with local companies to offer externships/internships
- Compliance check with the law
 - Majority of time spent
 - For full, sustained implementation additional activities will need to take place and may be funded
 - Program focus area
 - “other, please describe”

- Must address:
 - Pillars 2 & 3, Council annual priorities
 - Sustainability and Capacity Building
 - Michigan Academic Standards
- Plan of Work
 - Reference supporting materials, upload in MEGS+

Timeline	Activity/Task Description	Cost (denote funding source)	Staff/Partner Responsible	List Pillar 2 and/or 3 and the Advisory Council Priority Area Alignment
----------	---------------------------	------------------------------	---------------------------	---

- Complete the budget in MEGS+
 - Template provided for regional allocation calculation
- Activities should take place between October 1, 2020 and September 30, 2022
 - Mid-project (interim) report due October 29, 2021 for carryover requests (prior to November 1, 2021) & data collection
- Community support should be visible in local agency share of the budget and plan of work chart
- No more than 5% for indirect costs to the fiscal
- Reflect anticipated expenses associated with data collection requirements
- Staff charges (fte), supplanting of funds, etc.

- Description of the expertise of the team implementing
- Capacity of the fiscal
 - Manage the project
 - Organize the work
 - Meet the deadlines
- Upload any supporting materials into MEGS+
- Media/marketing requirements
 - These materials were developed under a MiSTEM grant awarded by the Michigan Department of Education.
 - Logo

- What is the program reach of the MiSTEM Advisory Council Grant Program?
- What outside funds and resources did STEMWorks programs receive by leveraging Council Grant funds?
- Which MiSTEM Grantees offer the most return on investment?
- Do students, teachers, and community stakeholders report positive outcomes from MiSTEM programming?

Fiscal Agent

Quarterly
Data Dump

End of Year
**Summary
Report**

CEDER

Interviews

Surveys

Quarterly Data Dump

- **Student & Teaching Program Data**

- Teacher Name
- PIC ID
- Grades taught
- # students taught
- NCES School ID
- District Name
- MiSTEM Region
- Program Type
- MiSTEM Pillar
- Date Offered
- # Hours
- Location (or Virtual)
- Title
- Description
- Funding Source
- Collaborator

- **Collaboration Data**

- Organization Name
- Organization Type
- Description of collaboration
- Description of frequency of collaboration

- **Funder Data**

- Organization Name
- Organization Type
- Amount of Funding
- Type of Funding
- Funding duration
- Description of funds

Quarterly Data Dump

- **Student & Teaching Program Data**

- Teacher Name
- PIC ID
- Grades taught
- # students taught
- NCES School ID
- District Name
- MiSTEM Region
- Program Type
- MiSTEM Pillar
- Date Offered
- # Hours
- Location (or Virtual)
- Title
- Description
- Funding Source
- Collaborator

- **Collaboration Data**

- Organization Name
- Organization Type
- Description of collaboration
- Description of frequency of collaboration

- **Funder Data**

- Organization Name
- Organization Type
- Amount of Funding
- Type of Funding
- Funding duration
- Description of funds

End of Year Summary Report

- **Overall Successes & Challenges**
- **Coronavirus Interruptions & Adaptations**

1. Quarterly Program Data Dump

Quarter One

- Report on data from October 1, 2020 to December 31, 2020
- Report Deadline: January 29, 2021

Quarter Two

- Report on data from January 1, 2021- March 31, 2021
- Report Deadline: April 30, 2021

Quarter Three

- Report on data from April 1, 2021- June 30, 2021
- Report Deadline: July 30, 2021

Quarter Four

- Report on data from July 1, 2021- September 30, 2021
- Report Deadline: October 29, 2021

2. Programming Summary Report

- Report on summary data for entire year
- Report Deadline: October 29, 2021

- Fiscals overseeing multiple STEMworks programs will have multiple MEGS+ applications
- MEGS+ application components
 - Cover page
 - Assurances and certifications
 - Important information
 - Budget
 - Attachments - upload **one** application document
 - Application form (narrative)
 - Letters of Support/Commitment
 - Allocation calculation spreadsheet
 - Documents referenced in narrative

- Review of applications
 - Alignment of needs with strategies proposed
 - May recommend additional opportunities for collaboration and alignment
 - Focus primarily on system sustainability actions & alignment to Council STEM strategy
- Applicants submit modifications if necessary
- State aid payments begin

Mission

Be the catalyst for equitable access and engagement in authentic STEM experiences in every community in Michigan.

Vision

Michigan is home to a generation of innovators who create more inclusive and prosperous businesses and communities.

All Regional Directors can be found at:

- www.michigan.gov/mistem

Megan Schrauben, MiSTEM Network Executive Director

- (517) 643-5957
- schraubenm1@michigan.gov

Amanda Stoel, MDE Department Specialist

- stoela@michigan.gov

Jeff McNeal, MDE Program Office Contact

- mcnealj1@michigan.gov