



MiSTEM Playbook Pilot Grant Technical Assistance

March 1, 2021

Welcome

This is a live presentation, please mute your microphones during the session

To ask questions during the webinar, please use the chat box

Slides will be posted on MiSTEM website

Introductions

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Project Director, MiSTEM Network

Session Outline

- Overview MiSTEM Strategic Vision
- Playbook Pilot Grant
- Key Components of the Funding
- How to Apply
- Questions



Transforming STEM in Michigan



VISION

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

MISSION

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

STRENGTHEN
NETWORK

ADDRESS
DISPARITIES

STRATEGIC
COMMUNITY
PARTNERSHIPS

DEVELOP 3P
LEARNING

ELEVATE
COMPUTER
SCIENCE

Transforming STEM in Michigan

District

District determines how and where proficiency is measured

Credit

Student credit is based on proficiency with the content

Diploma

District determines how graduation requirements are met and issues diploma

MiSTEM alignment in MICIP



Mindset



Process





MiSTEM Playbook Pilot Grant Request for Proposal (RFP)

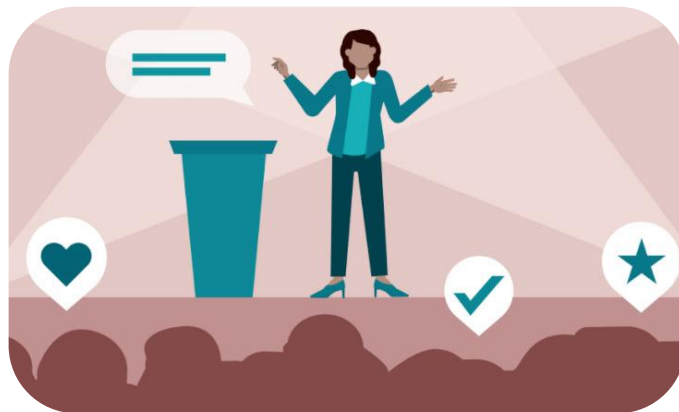
Purpose of Grant

Celebrate Your Success

MiSTEM is looking to learn from schools/districts that have implemented STEM education using problem-, place-, project-based (“3-P learning”) approaches in Michigan K-12 classrooms.

Share Your Story

Capture your 3-P story and share so others can take a similar pathway.



Ten awards, \$10,000 each

User Journey - How did you do it?

1

To document the journey of how the school/district transformed using innovative problem-based, project-based or place-based learning that will be shared in MiSTEM Playbook.

User Experience - Playbook Review

2

To participate in User Experiences with draft playbook(s) to conduct technical reviews and provide feedback to improve the playbook materials.

Grant Features & Celebration

- Celebrate & Share through communication channels



- Position your school as a leader in Michigan
- Highlighting 3-P learning initiatives throughout the state
 - Place-base
 - Problem-base
 - Project-base

Ten awards, \$10,000 each

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Playbook Hub User-Experience

Place-Based Education



Getting Started with Place-Based Education

Place-based education provides opportunities for students to learn in a way that's relevant to their lives and to work with local partners to enrich their community.



Professional Development for Place-Based Educators

Diverse training opportunities foster innovative teaching strategies



Community Partnerships for Place-Based Education

School-Community partnerships are essential to place-based learning.



Supportive School Policies and Structures

School policies can support place-based learning and similar experiential pedagogies in STEM classrooms.

Playbook Hub User-Experience

Computer Science



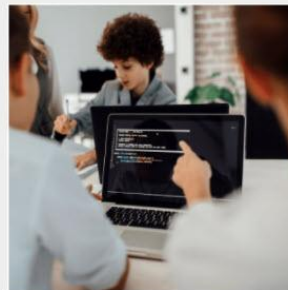
Creating a District K-12 Computer Science Vision

A clear K-12 computer science vision provides a purpose and pathway to student learning.



Computer Science Course Selection

How do we select materials and establish an effective curriculum?



Computer Science Clubs

Starting, sustaining a club that engages students and community stakeholders.

Playbook Hub User-Experience

Community and Everyday Settings



STEM P-Based Learning and Justice Theory

Justice occurs all students are given a fair and equitable opportunity to all the rights and privileges of a high-quality education.



Culturally Relevant Pedagogy

Schools must respond to the needs of diverse student populations with cultural competency and personalizing learning.



Youth-led Participatory Action Research (YPAR)

Centering student voices, experiences and cultural wealth clears a path for critical dialogue.



Transformative Leadership

This chapter provides insight into ways to implement STEM activities that are equitable and inclusive



Culturally Responsive Leadership in STEM Education

When schools make community connections with parents and students, they honor community-based ways of knowing.

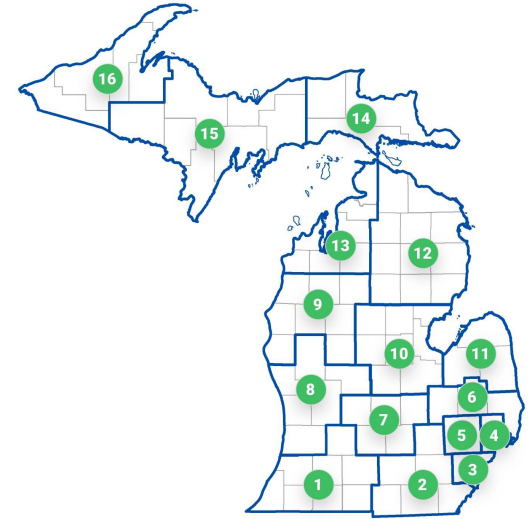
Eligibility

- ☐ Local Education Agency or Public School Academy in Michigan
- ☐ Priority given to those aligned to school improvement plan
- ☐ Currently using a 3-P learning approach is required



Grant Consortium Members

- ☐ MiSTEM Network Region
 - Contact region staff if applying for grant
- ☐ One LEA or PSA in Michigan
 - LEA or PSA must be the lead for proposal and provide fiscal services for this grant.
- ☐ At least one noneducation community partner
 - Business, nonprofit, government agency, etc.



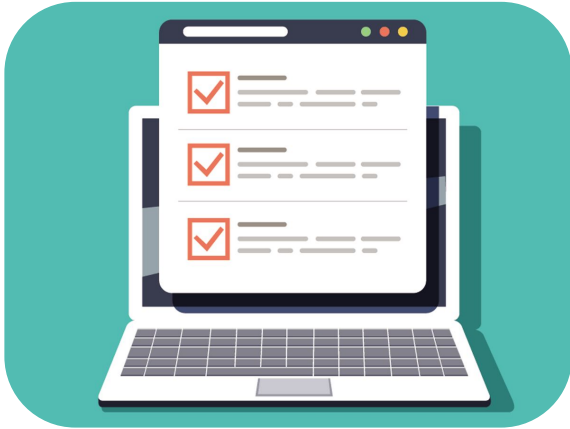
[MiSTEM 16 Regions](#)

Grantee Expectations

- ☐ Pre-grant, end-of-grant surveys, feedback forms, telephone interview
- ☐ Information on current 3-P instruction strategies (lessons, documents, etc.)
- ☐ Data collection
- ☐ Gathering content to create vignettes for playbook
- ☐ Examples: video, images
- ☐ Live or virtual interviews
- ☐ Permission to use requested materials

Application Process

Selection Step 1- Written Form



Selection Step 2 - Presentation



How to Apply

Selection Step 1

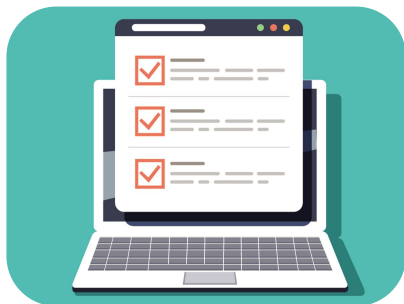
- ☐ Submit application online:
<https://forms.leo.state.mi.us/mistem-playbook-grant/>
- ☐ Application must be submitted by
5 p.m. (Eastern) April 30, 2021

APRIL 2021						
SUN	MON	TUE	WED	THU	FRI	SAT
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Review of Applications

Selection Step 1

Applications are reviewed based on grant selection criteria



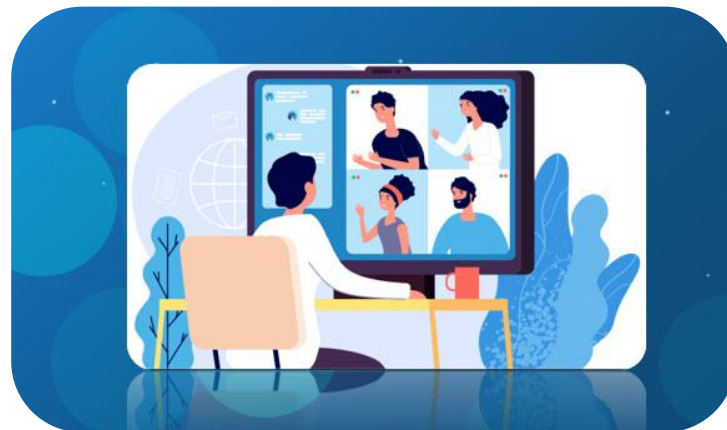
Grant Selection Criteria

- ☐ **Relevance:** applicant history of 3-P learning in school/district
- ☐ **Technical Merit:** strategies feasible, technically sound, reproducible to accomplish 3-P instructional approach
- ☐ **Commitment:** extent that 3-P learning is institutionalized in school/district improvement plan and culture
- ☐ **Education:** agreement to share data and documents of applicant's history/progress to create vignettes for visibility on MiSTEM Playbook
- ☐ **Outreach:** extent to which LEA/PSA engages with external partners and community in 3-P instruction strategies

Invitation to Present

Selection Step 2

- ❑ Invited applicants will share their **“Passionate 3-P story presentation”** to the MiSTEM Review Team
- ❑ 10-minute presentation, 10-minute Q&A
- ❑ Guidelines will be provided for presentation preparation



NOTE: Presentations are education experiences to inform the MiSTEM Review Team. These presentations are open for viewers wishing to learn more about 3-P approaches.

Application Timeline

Request for Proposal Open	February 18, 2021
Technical Assistance Webinar	March 1, 2021 (5-6 p.m. ET)
Request for Proposal Due	April 30, 2021 (5 p.m. ET)
Grant Reviews	May 2021

Pitch Presentation Invitation Only:

Pitch Presentations	May 18, 2021 (4-6 p.m. ET)
Pitch Presentations	May 19, 2021 (4-6 p.m. ET)
Pitch Presentations	May 20, 2021 (4-6 p.m. ET)

Grant Notifications by	May 30, 2021
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Grant Timeline

Project Deliverables	June 2021	Jul-Sep 2021	Oct-Dec 2021	Jan-Mar 2022	Apr-Jul 2022
Secure grant award with MiSTEM Network @ GVSU	X				
Attend virtual Kickoff Ceremony & Workshop: Obtain how MiSTEM will capture your 3-P learning journey & timeline deliverables		X			
Collaborate with MiSTEM to create vignettes of your 3-P learning story to share on the MiSTEM Playbook		X	X	X	
Participate in the User Experiences to conduct technical reviews and critiques to selected draft playbook(s)		X	X	X	
End-of-project evaluation report					X



Questions?

MiSTEM website: www.Michigan.gov/mistem

Application [website link](#)

Submit Questions [link to form](#)

Sign up for newsletter updates to learn about other opportunities! www.Michigan.gov/mistem



Thank you!