

# STEM PROGRAM MANAGEMENT & LEADERSHIP - MICRO-CREDENTIAL

This badge certifies that students holding leadership positions within CU Science Discovery have developed career-readiness competencies such as professionalism, empathy & inclusion, communication, teamwork, critical thinking and adaptability. Participants develop as effective leaders and learn the basics of STEM program management while coordinating engaging STEM education activities relevant to their community.

## Eligibility

- CU Boulder students (including degree-seeking and nondegree/ACCESS)
- Students serving in leadership positions for CU Science Discovery programs like Teen Science Café, Summer STEM Crew and the STEM Mentors Board (includes graduate, undergraduate and high school students)

## Delivery Mode

In-person

## Credit Status

Noncredit

## Academic Level

- Graduate
- Undergraduate
- Other

## Time to Completion

1–2 semesters

## Fee

No

## Requirements

- Experiences: Acting in a leadership capacity for a Science Discovery program, such as Teen Science Café, Summer STEM Crew or the STEM Mentors Board
- Workshops: Science Discovery Leadership Training

## Criteria

Learners must serve in a leadership position for a full season of a Science Discovery program and participate in at least 80% of the meetings and events. They'll also complete a self-assessment and written reflection on leadership and community engagement skills

Learners will demonstrate at least 80% of the competencies listed on the supervisor's evaluation rubric, including the following:

### Leadership

- Fosters a welcoming environment where team members feel comfortable asking questions and sharing their own ideas.
- Offers consistent guidance and support to team members.

- Identifies strengths and needs in team members and delegates tasks accordingly.

### Empathy & Inclusion

- Identifies, acknowledges and responds to the perspective of team members so they feel more comfortable and included.
- Actively listens to a peer's concerns and offers supportive, non-judgmental feedback.
- Modifies their explanations in real-time based on cues of confusion or excitement from community members.

### Integrity & Professionalism

- Represents Science Discovery's mission to advance STEM outreach and education, honestly admits when they don't have an answer and models intellectual humility and curiosity.
- Upholds group norms and resolves conflict by working with Science Discovery staff.
- Models accountability for the team by taking responsibility for mistakes and correcting them when possible.

### Communication

- Clearly conveys ideas, plans and needs to team members.
- Provides clear explanations of scientific topics using accessible language, relevant analogies and enthusiasm.
- Proactively communicates with peers and Science Discovery staff about potential challenges or opportunities you observe while engaging with a specific community group.

### Teamwork

- Works collectively with the team to coordinate Science Discovery programs, modeling selflessness and ensuring that community space is respected and left in excellent condition.
- Provides supportive and constructive feedback to team members throughout a program to ensure that it runs successfully.

### Community Engagement

- Listens to the specific interests or needs expressed by the community members and suggests how future Science Discovery programs could address them.
- Proactively initiates conversations with community members to welcome them and share the purpose of the event.

### Reliability

- STEM Leader follows through on their tasks, modeling dependability for the team.
- Arrives on time and prepared for meetings and events, demonstrating respect for the community members' time and commitment.

### Organization

- Develops clear systems to effectively manage materials and systems.
- Maintains shared resources so they are organized and easily accessible for all team members to use.

### Critical Thinking

- Takes the initiative to research, propose and implement new strategies with Science Discovery staff.
- Invites multiple perspectives to problem-solving discussions and approach the discussions with a learner's mindset.
- Demonstrates creativity and persistence when troubleshooting problems

### **Adaptability**

- Willingly and smoothly steps in to cover gaps and provide additional support when needed.
- Maintains a positive attitude when faced with unexpected challenges, working with the team to find a constructive solution.

### **Skills**

- Adaptability
- Communication
- Community Engagement
- Empathy
- Integrity
- Mentorship
- Organization
- Problem-solving
- Reliability
- Teamwork