

Office of Science, Innovation and Technology Nevada STEM Leaders Academy

The Governor's Office of Science, Innovation and Technology (OSIT) is seeking school teams to participate in a year-long cohort with the goal of increasing equity, interest, and awareness of STEM and STEM careers. Teams will come together over the course of the school year for professional development and strategic planning around STEM education. Schools will leave with a clear definition of STEM education and a strategic plan for improving STEM education at their sites. Additionally, schools that participate in the academy will have experience with the Governor's STEM designation application process and rubric and will have the opportunity to apply for an OSIT grant up to \$20,000 to support implementation of their strategic plans.

Requirements:

- School teams must consist of 5-8 people and must include at least one administrator.
- Administrators must submit a letter of commitment to implement the academy's resulting strategic plan.
- Teams must commit to meet for full-day workshops five times across the year. (Funding for substitutes is not provided by OSIT.)

Note: Schools at all levels of implementation are invited to apply.

If your school is interested in sending a team to the 2020-2021 STEM Leaders Academy, please submit the attached application, along with a letter of commitment from the school's principal, to Brian Mitchell at BLMitchell@gov.nv.gov by Monday, May 4th, 2020.



Office of Science, Innovation and Technology Nevada STEM Leaders Academy

Purpose: Increase equity, interest, and awareness of STEM and STEM careers by expanding access to high-quality STEM education in K-12.

Plan: Increase the quality of STEM education throughout the State by providing consulting and technical assistance to leaders from aspiring STEM schools to create a strategic plan and school-specific roadmap for achieving the Governor's STEM School Designation.

Program Overview: OSIT will invite applications from schools across the state to convene for five days of professional development and strategic planning to improve STEM education and achieve the Governor's STEM School Designation. Participating school teams will receive STEM professional development, develop a strategic plan, and have the opportunity to submit a grant application to OSIT for up to \$20,000 to implement their strategic plan. Participating schools are invited to apply for the Governor's STEM School Designation in the spring and participate in an end-of-year student showcase.

Application: Due Monday, May 4th, 2020. See pages 6-7 to apply.

- Application components:
 - School details
 - Team roster
 - Questions regarding current STEM initiatives, STEM vision, and goals
 - Letter of commitment from Principal, including at least:
 - Team attendance at all workshops
 - Implementation of the resulting STEM strategic plan
- 4 or 5 school teams will be selected to participate in the Academy.
- School teams will be comprised of 5 to 8 people, including at least one administrator.



STEM Leaders Academy Details

Program:

5 days of professional development (9:00-4:00)

*Dates will be released over the summer.

Orientation | Self-Paced | Summer 2020

Topics:

Academy Overview and Expectations

Nevada STEM Framework and Self-Assessment

Team work time:

Self-assess your school using the Nevada STEM Framework

Create a PD/Planning Schedule

Homework:

Submit self-assessment and PD schedule online

*Welcome Back Week at school sites: Introduce STEM Leaders Academy goals

Workshop 1: What is STEM? | August 2020

Topics:

Engineering Design Process

Science and Engineering Practices

Define STEM and develop a common language

Team work time:

Define STEM for your school

Homework:

Implement PD and upload artifacts

Refine STEM definition with staff and upload

Survey the staff

OSIT Site Visits

Schedule a 1-2 hour visit during August-September. This visit will help familiarize OSIT with your school so that we can better support you through the year.

Workshop 2: STEM Foundations | October 2020

Topics:

3D Learning
Integration
Phenomena

Team work time:

Create a vision and pillars for your school's STEM strategic plan
Create a PD on today's topics
Explore examples of integrated units

Homework:

Implement PD and upload artifacts
Refine STEM vision and pillars with staff and upload

Workshop 3: Logic Model | December 2020

Topics:

Equity
Teamwork and Collaboration

Team work time:

Create outcomes for your school's STEM strategic plan
Create a PD on today's topics

Homework:

Implement PD and upload artifacts
Refine STEM outcomes with staff and upload

Workshop 4: Action Steps | February 2021

Topics:

STEM Careers
Leadership

Team work time:

Create action steps, identify resources, and outline benchmarks for your school's
STEM strategic plan
Create a PD on today's topics

Homework:

Implement PD and upload artifacts
Refine STEM action steps, resources, and benchmarks with staff and upload

Workshop 5: Strategic Plan & Grant Writing | April 2021

Topics:

Grant Writing

Strategic Plan Implementation

Team work time:

Begin writing grant proposals

Contact district grant coordinators

Plan '21-'22 school year's PD and planning schedule

Homework:

Finalize and submit '21-'22 implementation plan

Finalize and submit grant proposal

Office of Science, Innovation and Technology Nevada STEM Leaders Academy 2020-2021 Application

Instructions: Please complete the 2-page application and submit, along with a letter of commitment from the school's principal, as a single PDF to Brian Mitchell at BLMitchell@gov.nv.gov by Monday, May 4th, 2020.

School Name:

School Address:

District:

Are you interested in applying to become a Governor Designated Nevada STEM School?

Team

Note: Your team should stay consistent throughout the year. Your team must include at least one administrator. All team members should attend each workshop. Your team should include 5-8 members and represent a range of grade levels and subjects.

| Name | Role | Grade Level(s) | E-Mail Address |
|------|------|----------------|----------------|
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1. Describe your school's STEM vision. (Max 500 words)

2. Describe your school's current STEM characteristics. Include areas of strength and areas with potential for improvement. This may include, but is not limited to, mission and vision, personnel support, current practices, curriculum, professional development, content integration, climate, resources, community outreach, etc. (Max 750 words)

3. What are your school's expectations for the STEM Leaders Academy? Please include why you are applying for the academy, and what you hope to gain from the academy. (Max 750 words)

4. How do you anticipate you will engage the entire staff in the work being done at the academy around STEM education? Consider opportunities for collaboration at your school and when will your STEM Leaders team will meet at your school. (Max 500 words)

