

# 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 Friday 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 2018-2019 STEM Leaders Academy, please submit the attached application, along with a letter of commitment from the school's principal, [to Tracey Gaffney at tgaffney@gov.nv.gov](mailto:tgaffney@gov.nv.gov) by Friday, September 7, 2018.



# Office of Science, Innovation and Technology 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 September 7, 2018. See pages 5-6 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 Friday 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 5-8 people, including at least one administrator.



## STEM Leaders Academy Details

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

### 1. September 21, 2018 - Opening Institute

#### Presentations

Define STEM and develop a common Language

STEM integration

Engineering Design Process and Science and Engineering Processes

Overview of the Academy

Nevada STEM Framework

#### Team Time

Define what STEM is for your community

Discuss the Framework

#### Homework

Discuss the Framework at your school site and discuss school's strengths and weaknesses

### 2. November 2, 2018 - Desired Outcomes (Logic Model pt. 1)

#### Presentations

Inquiry

Teamwork and collaboration

Introduction to Logic Models

Insight from STEM Teachers of the Year

#### Team Time

Logic Model: Teams develop 3-4 pillars for their STEM program

Define outcomes for each pillar using SMART goals framework

Feedback protocol

#### Homework:

Finalize pillars with staff at school

\*November: OSIT visits each school site to provide support.



## STEM Leaders Academy Details Continued

### 3. December 7, 2018 - Action Steps (Logic Model pt. 2)

#### Presentations

- Phenomena
- Connecting STEM to careers
- Employer panel discussion

#### Team Time

- Define outcomes for each pillar
- Feedback protocol

#### Homework

- Complete outcomes with staff at school

### 4. February 8, 2019 - Resources and Investing

#### Presentations

- Equity
- Leadership
- Principals panel discussion

#### Team Time

- Develop action steps for each outcome

#### Homework

- Finish STEM Strategic Plan

### 5. Summer Institute (date TBD by the group)

#### Presentations

- How to sell your plan
- Grant writing
- Develop a plan and budget for funding
- Role playing: Selling your plan to others at your school and in your community
- Present strategic plans to colleagues for feedback and refinement

Teams present their strategic plans and give an update on implementation/ lessons learned/successes and challenges to the next cohort of teams.



# Office of Science, Innovation, and Technology

## Nevada STEM Leaders Academy

### 2018-2019 Application

Instructions: Please complete the 2-page application and submit, along with a letter of commitment from the school's principal, to Tracey Gaffney at [tgaffney@gov.nv.gov](mailto:tgaffney@gov.nv.gov) by Friday, September 7, 2018.

**School Name:**

**School Address:**

**District:**

Are you interested in applying to become a [Governor Designated Nevada STEM School?](#)

#### Team

Role	Name	Email
Administrator		
Teacher		
Teacher		
Teacher		



# Office of Science, Innovation, and Technology

## Nevada STEM Leaders Academy

### 2018-2019 Application

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)

