

Office of Science, Innovation and Technology

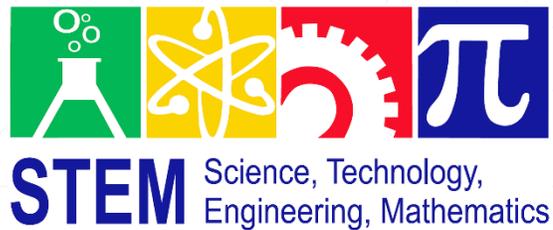
Brian Mitchell- Director, OSIT

Overview

- What we do
- Where we're going



What We Do



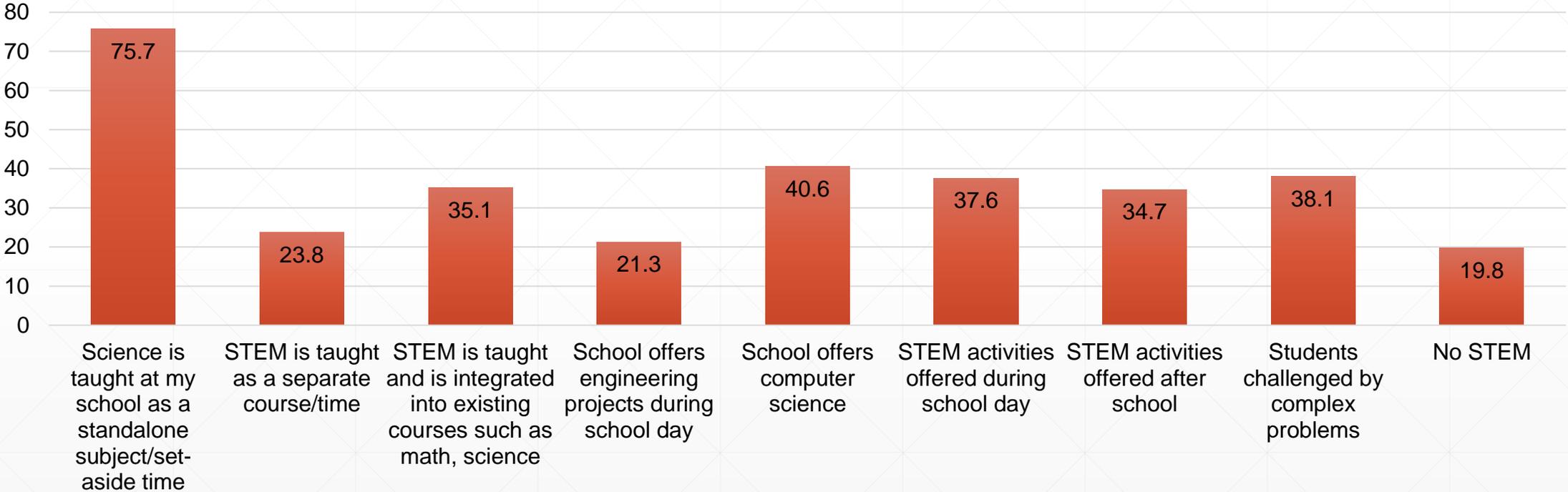
STEM Workforce Challenge Grants (Postsecondary)

- Grants to workforce training providers **aligned** with needs of STEM employer partners, start-up costs only
- SFY16
 - \$961,181 State Funding; over **\$2 million total investment** in STEM workforce training
 - **428** estimated yearly training capacity
- SFY17
 - Awarded \$320,007 in Round III in September, 2016
 - Round IV in December

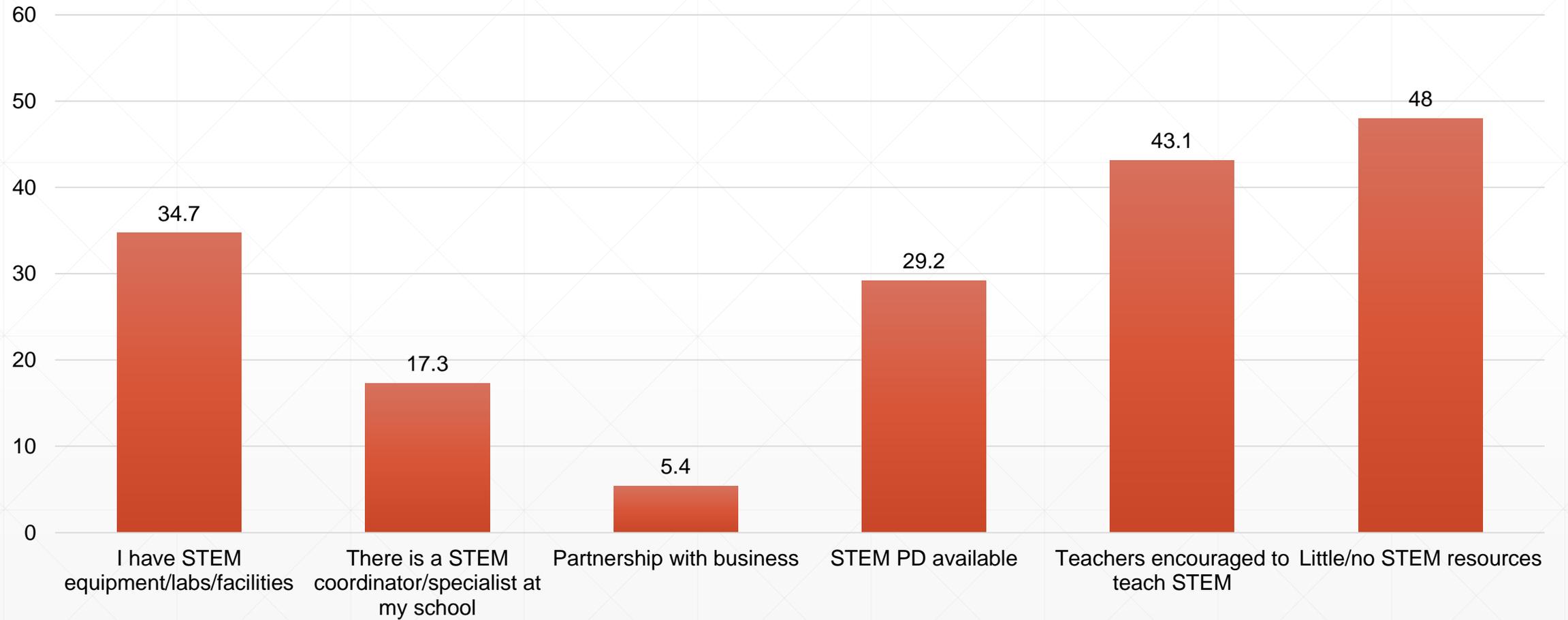
STEM Advisory Council

- 15 Members (4 ex-officio)
 - 8 Appointed by the Legislature
 - Duties
 - Survey Schools
 - Develop a Strategic Plan
 - Recognize Students and Schools
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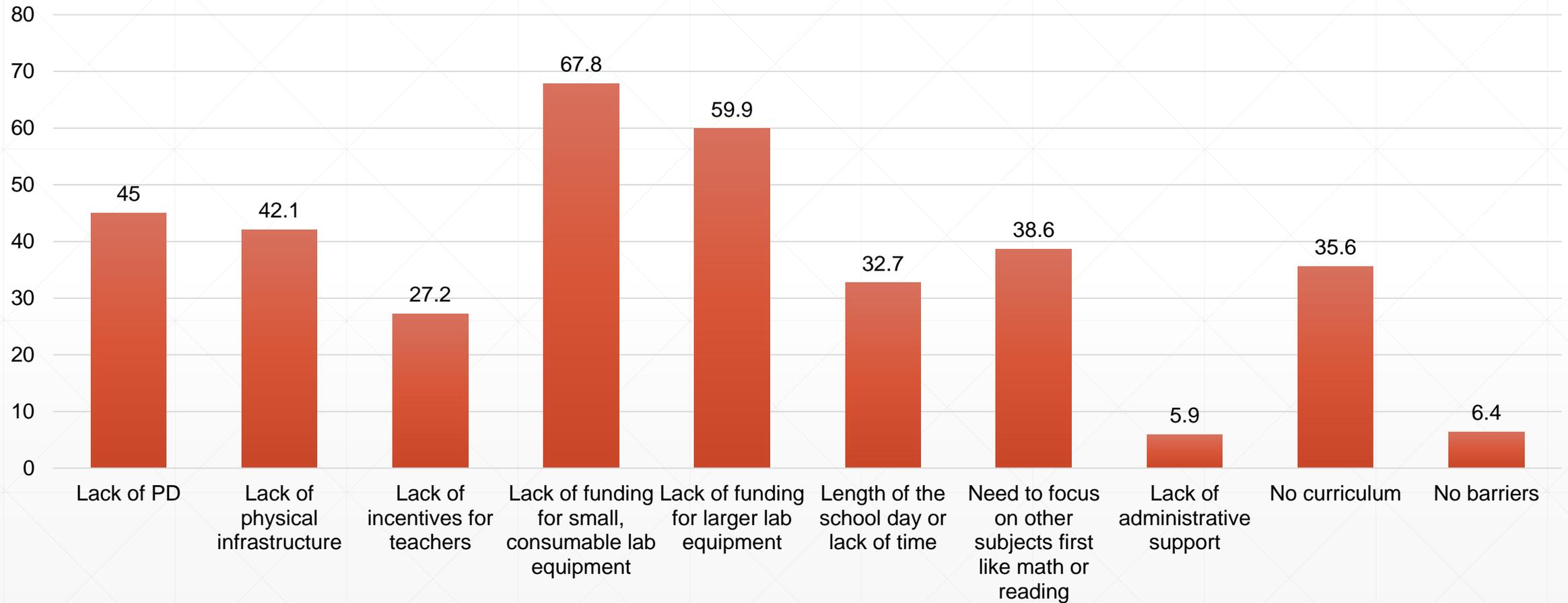
STEM Advisory Council Survey- Offerings



STEM Advisory Council Survey- Resources



STEM Advisory Council Survey- Barriers



STEM Advisory Council Strategic Plan

- Completion by November
 - **4 Priority Areas**
 - Interest and Awareness
 - Quality and Scope
 - Equity and Access
 - Alignment and Engagement
-

STEM Advisory Council- School and Student Recognition

- **Schools**

- Governor' STEM School Seal
- Application process
- Recognize up to 15 schools in Carson City May, 2017

- **Students-** Nevada K-12 STEM Challenge

- Two events (Las Vegas, Reno)
-

STEM Marketing Initiative

Vision

Exciting, recognizable STEM brand that highlights the full spectrum of STEM opportunities in Nevada and paints Nevada as a *Leader in STEM*.

▪ Marketing Plan Features

- Follows the school year: September-May
 - Monthly themes including computer science, healthcare, advanced manufacturing, gaming, career pathways
 - School/business/college visits, community events, stakeholder outreach
 - Opportunities for involvement by elected officials, business, community leaders
 - STEM website with career pathway information, teacher resources and a statewide events calendar
-



Nevada **STEM** Hub

www.stemhub.nv.gov

Nevada STEM Hub

- Comprehensive STEM Career Guide
 - STEM Resources for Teachers
 - Statewide Events Calendar
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STEM careers are defining Nevada's future. As the demand for STEM talent in Nevada continues to grow, Nevada STEM Hub aims to share resources that can help educate Nevadans about these vital careers and motivate Nevada's kids to pursue STEM career paths.

GET STARTED

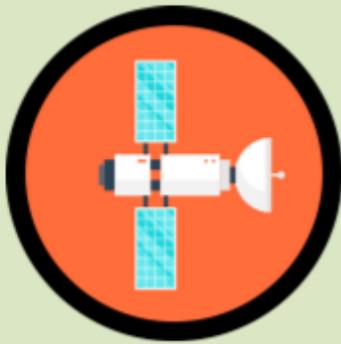
What can you do with STEM?

The fact is, you don't have to work in a lab or a classroom to work in STEM. STEM is everywhere. Of course it's in science and engineering labs, machines and classrooms, but it's also in high-tech manufacturing, computer programming, mining, healthcare, media, agriculture, gaming, clean energy, wildlife and even sports. If there is a career field that interests you, there's a good chance there are STEM jobs there, too.

It's possible you already know what kind of work you want to do, but if you're like many young people, you haven't settled on a career path yet. To help you find a STEM career that will fit your interests, choose from the list below. You can choose more than one.

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Climb Higher

I'm interested in:



Working with machines



Working with numbers



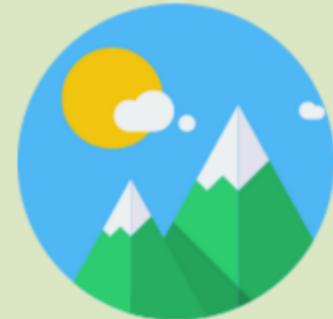
Building or fixing things



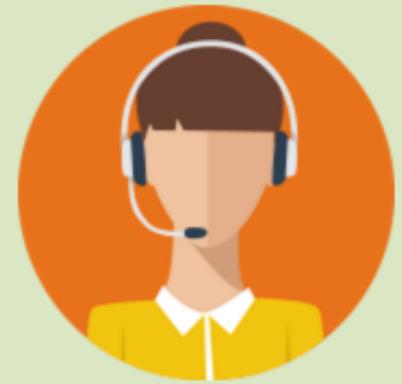
Working with computers



Helping animals and people



Working outdoors



STEM jobs for you

This page is where the jobs are listed from clicking on a category icon on previous page. The user will then filter results by industry and how many jobs they want to see at a time. Make provision for showing more jobs. When user clicks on job name they go to individual job page, in this case Materials Scientist to see all the stats.

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Filter Result:

Select All



[Marine architect](#)

[Robotics engineer](#)

[Crime Scene Analyst](#)

[Virtual Reality Programmer](#)

Show more



Materials Scientist

Materials scientists are modern day mad scientists. They make the materials that make up the all stuff you come in contact with—everything from the shoes you wear to the bike you ride to the phone you use. Materials scientists figure out how to develop these materials, how they can be used and how they can be changed to do even more amazing things.



Skills Needed

Wages

Employment Stats

Similar Careers

Education Needed

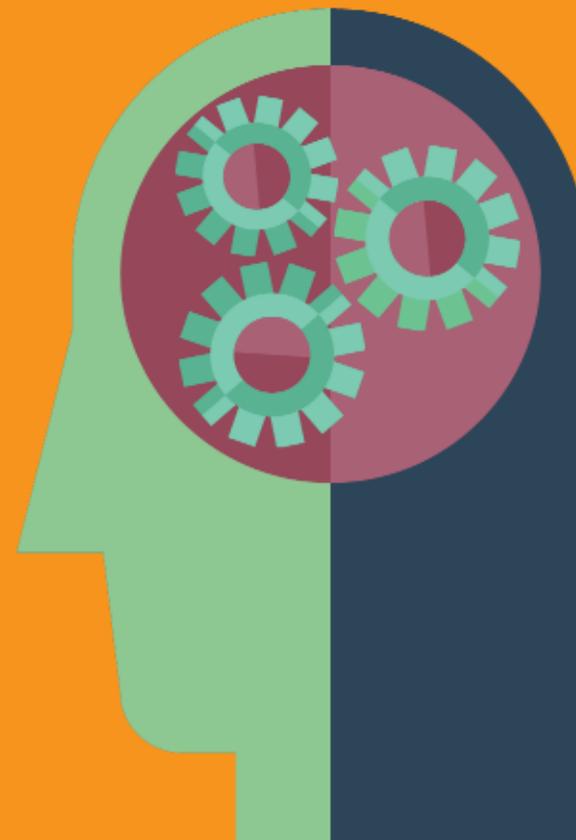
Science — Using scientific rules and methods to solve problems.

Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Reading Comprehension — Understanding written sentences and paragraphs in work related documents.

Complex Problem Solving — Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Speaking — Talking to others to convey information effectively.





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Skills Needed

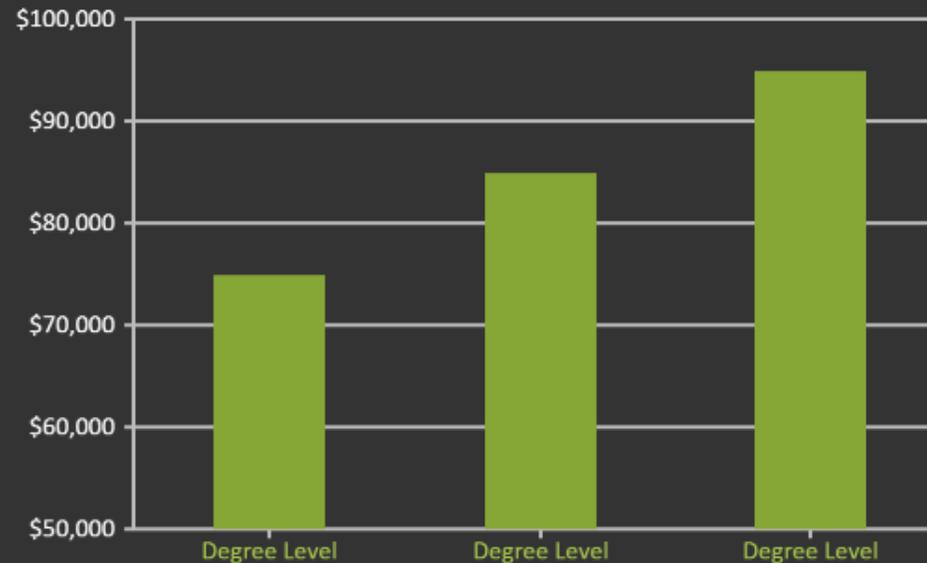
Wages

Employment Stats

Similar Careers

Education Needed

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1st year wages **\$65K**

5th year wages **\$85K**

10th year wages **\$105K**

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High school courses

Course

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Degree Levels Offered

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Average Annual Wages



4

Links to Schools and Programs



Calendar/Event

« Prev

September 2016

Next »

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	1

Calendar and Monthly Themes

Year-Long STEM Marketing Initiative

- September- Launch Event
 - October- Advanced Manufacturing & Construction Careers
 - November- STEAM/Creativity
 - December- Coding/Computer Science/Cyber Security & Mining
 - January- Clean Energy
 - February- Gaming
 - March- STEM Education/teaching
 - April- Engineering
 - May- Healthcare & Student and School Recognition Events
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Nevada K-12 STEM Challenge

- Use STEM to help solve some of Nevada's toughest challenges
 - Present your solutions at recognition events in May
 - Challenge topics:
 - Drought and Water Conservation
 - Cybersecurity
 - State Parks
 - Land Use
 - Clean Energy
 - Environment
 - 21st Century Learning
 - Drones
 - Modern Transportation/Infrastructure/Autonomous Vehicles
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Governor's STEM School Seal

- Awarded to schools that demonstrate exemplary performance in STEM Education
 - All schools can apply for this designation
 - Application details on stemhub.nv.gov
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