



NOTICE OF PUBLIC MEETING OF THE
MARICOPA COUNTY WORKFORCE DEVELOPMENT BOARD YOUTH COMMITTEE

Pursuant to A.R.S. § 38-431.02, notice is hereby given to the members of the Maricopa County Workforce Development Board Youth Committee and to the general public that the Maricopa County Workforce Development Board Youth Committee will hold a meeting open to the public on:

Thursday, January 4, 2024 – 1:30 p.m.

<https://www.gotomeet.me/MaricopaCountyWDB>

Phone: +1 (872) 240-3212; Access Code/Meeting ID: 167-097-701

The Agenda for the meeting is as follows:

**Indicates materials attached, please review/read prior to meeting.*

1. Call to order.

2. Roll Call.

3. Welcome, Opening Remarks, and Meeting Objectives.

Meeting Objectives:

- Learn about current and future plans to incorporate STEM learning opportunities from the Maricopa County Superintendent of Schools office and Arizona State University.
 - Learn what Arizona@Work programs and initiatives interface with STEM opportunities.
 - Hear from committee members regarding their suggestions for new ideas as we attempt bridge the gap between youth and careers.
-

4. Consent Agenda.

For Possible Action.

The Committee will consider and vote on the items on the consent agenda. Consent agenda is established to efficiently dispense the business of the MCWDB. These items will not be discussed unless a Member of the Committee asks to remove the item from the consent agenda.

- a. Meeting Minutes: November 2, 2023*
-

5. Chair Report.

6. Information/Discussion Only.

- a. MCWDB Youth Success Story*
 - b. Superintendent of Schools: STEM Outreach Efforts Presentation*
 - c. ASU STEM Programs*
 - d. MCWDB Committee Member Forum: Strategies for Connecting Youth to STEM Career Opportunities*
-

7. Call to Public.

8. Adjourn.

PUBLIC PARTICIPATION AND ACCESS: "The public must be allowed to attend and listen to deliberations and proceedings taking place in all public meetings, A.R.S. § 38-431.01(A); however, Open Meeting Law does not establish a right for the public to participate in the discussion or in the ultimate decision of the public body." Note: Agenda items may be taken out of order

"Equal Opportunity Employer/Program." "Auxiliary aids and services are available upon request to individuals with disabilities." A sign language interpreter, alternative format materials, or infrared assistive listening devices will be made available within 72 hours' notice. Additional reasonable accommodations will be made available to the extent possible within the time frame of the request. Arizona@Work: Maricopa County products and services are made available through federal funding provided by the Workforce Innovation and Opportunity Act (WIOA); serving Employers by aiding job seekers, adults, dislocated workers and youth.



Consent Agenda

Meeting Minutes



MINUTES OF PUBLIC MEETING OF THE MARICOPA COUNTY WORKFORCE DEVELOPMENT BOARD
Youth Committee

Thursday, November 2, 2023 – 1:30 p.m.

GoToMeeting: <https://www.gotomeet.me/MaricopaCountyWDB>

Phone: +1 (872) 240-3212; Access Code/Meeting ID: 167-097-701

Members Present: Joe Veres, Barbara Coakley, Brittany Holmes, Kathryn “Che” Collins, Jason Walker, Jessica Rivera-Garcia, Liz Valdez, Marie Raymond, Meredith Critchfield, Nancy Stanford, Tina Drews, and Tony Finn
(Note: All members present attended via GoTo meeting)

Members Absent: Jessica Putton

MEETING

Call to Order.

Chairman Joe Veres, called the meeting to order at 1:30 p.m., and requested roll call.

Roll Call.

MCWDB Board Liaison, Deseret Romero took roll. A quorum was present.

Welcome and Opening Remarks.

Chairman Veres welcomed everyone to the Youth Committee meeting.

Consent Agenda.

Meeting Minutes: September 14, 2023

MOTION:

Chairman Veres asked for a motion to approve the MCWDB Youth Committee’s consent agenda as presented. Jason Walker made a motion; Kathryn “Che” Collins seconded the motion.

Chairman Veres called for an all-in favor vote:

In Favor: Joe Veres, Barbara Coakley, Brittany Holmes, Kathryn “Che” Collins, Jason Walker, Liz Valdez, Marie Raymond, Meredith Critchfield, Tina Drews, and Tony Finn

Opposed: None

Abstained: None

Motion passed.

Chairman Report.

Chairman Veres shared a recent visit and collaboration with the Taiwan Semiconductor Manufacturing Company (TSMC) looking at several career pathways, such as electricians. The discussions led to a meeting with White House leadership, City of Phoenix, and others to discuss opportunities to get in front of youth on, how to market to the youth and parents informing them of the career pathways.

Youth Impact Statements.

MCWDB Youth Success Story

Workforce Development Division Youth Career Advisor Nancy Dang shared with the Committee the provided MCWDB Youth Success Story.

Informational/Discussion/Possible Action.

Youth Committee Goals and Action Item Summary

Chairman Veres provided a review of the FY24 Youth Committee Goals discussed at the September 14, 2023 meeting by the Committee. Below are the read goals.

1. Explore and develop new ways to connect youth to careers.
2. Investigate the creation of youth apprenticeships for out-of-school youth.
3. Continue to explore new ways of educating the major stakeholders, decision-makers, and policymakers in the in-demand career opportunities.
4. Research innovative methods of connecting the business community to our youth (16-24).

The Committee shared the importance of the goals and linking youth to all youth providers to ensure that everyone is connected.

MOTION:

Chairman Veres asked for a motion to approve the Youth Committee Goals as presented. Kathryn "Che" Collins made a motion; Tina Drews seconded the motion.

Chairman Veres called for an all-in favor vote:

In Favor: Joe Veres, Barbara Coakley, Brittany Holmes, Kathryn "Che" Collins, Jason Walker, Jessica Rivera-Garcia, Liz Valdez, Marie Raymond, Meredith Critchfield, Nancy Stanford, Tina Drews, and Tony Finn

Opposed: None

Abstained: None

Motion passed.

Informational/Discussion Only.

FY24 CTE Courses in the Valley

MCWDB Management Analyst Julia Maciel provided a presentation on the FY24 CTE Courses in the Valley. Below are the highlights of Ms. Maciel's presentation.

- What is Career Technical Education (CTE)?
- CTE in Arizona
- Valley School Districts and their CTE Courses
 - Mesa Unified School District
 - Chandler Unified School District
 - Peoria Unified School District
 - Deer Valley Unified School District
 - Gilbert Public Schools
- Apprenticeship vs College Comparison

Chairman Veres thanked Ms. Maciel for her presentation and opened the floor for the Committee comments and questions. The following comments/questions were discussed.

Question/Comments	Response
Possibility to connect the Youth Committee and State CTE Commission for collaboration.	Multiple Members supported this idea.
State CTE Commission hosting July state-wide meeting, possibility to involve Youth Committee. MCWDB Member Tina Drews offered to connect the Youth Committee to the State Commission.	Multiple Members supported this idea.
Liked the idea of connecting with the state to identify the “bigger picture” conversations on ways to connect youth to career pathways opportunities.	
TSMC and LUX is also looking to create an apprenticeship model.	
Good idea to attend the Youth Apprenticeship Conference in New York in the future.	
Important to build school partnerships.	

ElevateEdAZ Presentation

ElevateEdAZ, Director of Business Partnerships Mitch Horlick to provide a presentation on their partnerships in connecting youth to career pathways. Below are the highlights from this presentation.

- ElevateEdAZ
 - Career Awareness & Development
 - Strong Focus on Continuing Education
 - High School Internships and Job Shadows
 - Fast Track to Employment Opportunities
- Districts where we are impacting students
 - ASU Preparatory Academy
 - Deer Valley Unified School District
 - Peoria Unified School District
 - Paradise Valley Unified School District
 - Phoenix (PXU) Union
 - Mesa Public Schools
- Business Partners
- In-Demand Industries Exposure to Students
- Business Engagement

Chairman Veres thanked Mr. Horlick for his presentation and opened the floor for Committee comments and questions. The following comments/questions were discussed.

Questions/Comments	Response
	Provide assistance with internships. Most are paid and recently received funding for those who are not paid interns.
Is your main focus high school students?	Yes.
Is there a focus on youth apprenticeships?	Program does not include youth apprenticeships, however, they do connect youth to post-high school opportunities.

Maricopa County Community College District Associate Dean of Instruction and Community Development Kelly Stewart to provide a presentation on Maricopa County Community Colleges efforts in bridging the gap between youth and employment. Below are the highlights from Ms. Stewart's presentation.

- Adult Education System
- Rio Salado College Adult Education
- FY23 RSC Adult Education
- Adult Education Enrollment
- IET Program Components
- Career Training Path and Opportunities
- IET Success Stories
- RSC Youth Reengagement Centers

Chairman Veres thanked Ms. Stewart for her presentation. opened the floor for Committee comments and questions. No questions were heard.

MCWDB Committee Member Forum: Expanding Youth to Career Opportunities

Member Nancy Stanford shared the Marriott's experience and success with apprenticeship opportunities.

Call to the Public.

Chair Veres made a call to the public for comments. No one spoke.

Adjourn.

Chair Veres adjourned the MCWDB Youth Committee meeting at 2:49 pm.

**For additional information, contact MCWDB staff at: MCWDB@maricopa.gov*



Information/Discussion Only.
MCWDB Youth Success Story

Participant Name: Nicholas

Month/Year: June/2023

Career Advisor: Maria Navarro Chestnut

Nicholas entered the doors of ARIZONA@WORK seeking a career in the transportation industry after spending years in the food industry. Nicholas had heard about the program through a friend who was familiar with the services. Nicholas was eligible for the program as a young adult who was low-income and who needed additional assistance with his educational and work goals.

When he met with his Career Advisor, Nicholas displayed his traits of being organized and a fast learner. His loyalty to his employers shined brightly through the years he dedicated to them, and they were supportive of him pursuing his CDL career. Nicholas and his career advisor Maria discussed labor market information and Nicholas was able to gain insight on future salaries and skills needed for his desired occupation.

Nicholas set off to begin his research into the different schools that offered this training and were partnered with ARIZONA@WORK. From his findings, he decided to move forward with Phoenix Truck Driving Institute. Phoenix Truck Driving Institute was the most appealing choice due to its flexible class scheduling. The structure offered would allow Nicholas the opportunity to work at his current job/shift and attend classes. Nicholas was excited to get started with school. On September of 2023, in just one short month, Nicholas graduated from CDL school with his certificate of completion and received his CDL license.

Upon the attainment of his CDL, he immediately attended an interview for a position in heavy truck driving. He kept in touch with his advisor throughout the steps and she was able to offer additional assistance through his interviewing process. Nicholas received a full-time employment opportunity in November of 2023 as an Align Hall Truck Driver. This new opportunity provided a \$7/hour increase in his income. As excited as he was with the offer, Nicholas was mindful of his resignation, giving his current employer enough notice to show his gratitude for the employment opportunity that they had given to him through the years. The increase in income also helped Nicholas to achieve another goal he had originally set for himself, which was to provide financial support to his parents.

Nicholas expressed his gratitude for the tools and guidance provided to him by his career advisor. With his new credential, Nicholas was inspired to establish new goals of owning



his own truck driving company with the help of his family. What was once a dream, became a goal and then transitioned to a collected achievement. Nicholas has been placed in follow-up services as he gains experience in his new career. Follow-up services were offered to provide additional support to him if needed. His appreciation to ARIZONA@WORK has been displayed in his willingness to recommend friends and family to the program throughout his new career.



Information/Discussion Only.
Superintendent of Schools:
STEM Outreach Efforts Presentation

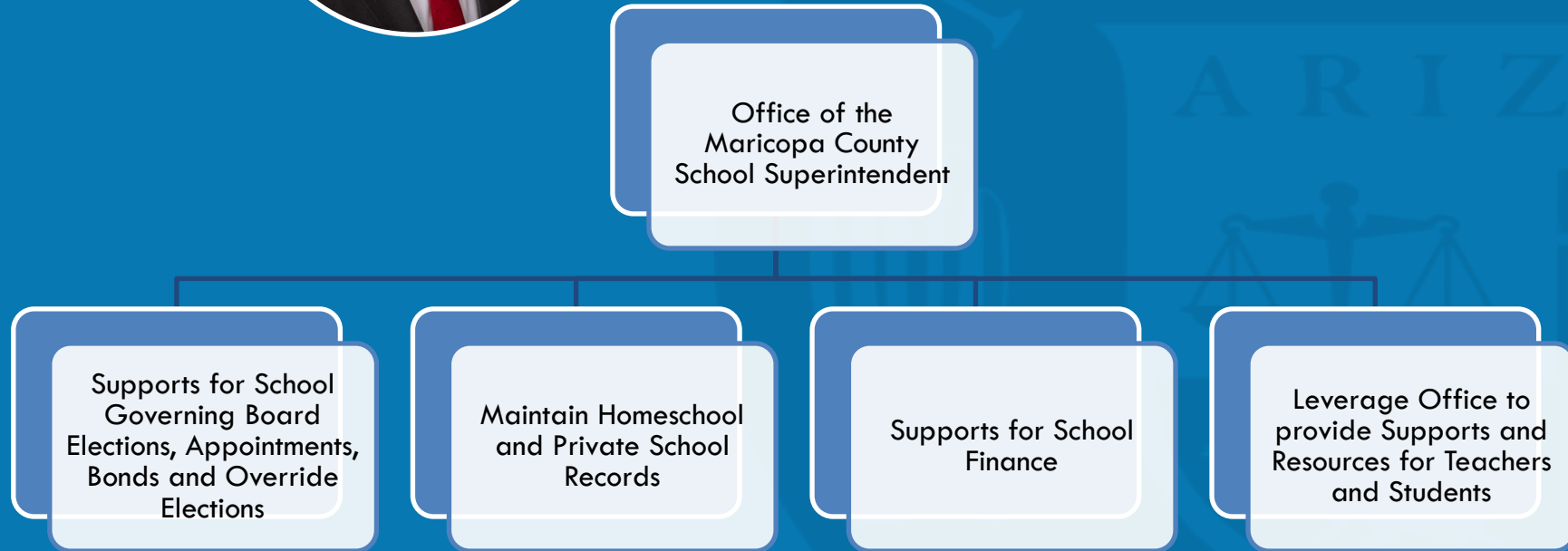
Building Career Awareness through Education and Workforce Connections



Office of the Maricopa County
School Superintendent
Steve Watson



Maricopa County School Superintendent Steve Watson



Research Connected to Career Pathways

Students make future career choices from school classes, club experiences and role models

Students need **access to Role Models** that they **can relate with** as they consider a future career paths

Connecting real-world learning and career awareness motivates and inspires students to the **why** for learning

Classroom teachers play a crucial role in the development of student career pathways.




Outcomes for Today

1. Share about the MCSSO Educator Pro Connect platform, data and additional Industry-Education supports.
2. Review examples of using EPC in classrooms.
3. Discuss Outcomes for Workforce Development Board

Educator Pro Connect Platform

educatorproconnect.org



EDUCATOR PRO CONNECT

A platform that matches industry professionals with educators!
Register, build a profile and choose how you want to connect with industry professionals.
Schedule volunteers one time or multiple dates during the school year!

YN

Your Name

[EDIT MY PROFILE >](#)

[Deactivate Profile](#)

[Edit Profile](#)

ABOUT **SUPPORT INTERESTS**

How Would You Like to Connect with Educators?

In-Person

Video Conference

Both

Preferred Connection Activities

Share my career journey and answer questions

Provide content/subject consultation with a class

Support students with a classroom project by asking questions and linking current industry standards to the project

Consult with a teacher on designing a real-world classroom project

Become a member of a CTE Advisory Committee

Participate in an exhibit or school fair

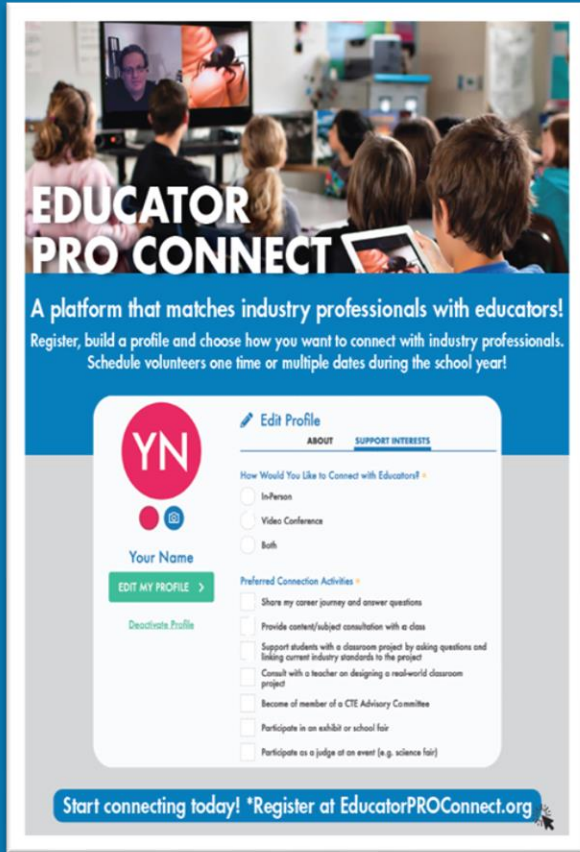
Participate as a judge at an event (e.g. science fair)

Start connecting today! *Register at EducatorPROConnect.org

A free platform that matches Educators with Industry Professionals

- Professionals share about their career pathway and answer student questions for career awareness.
- Support teachers with specific content knowledge in subject areas
- Provide authentic, real-world content in classrooms
- Support students and classrooms with project-based learning

Data about Educator Pro Connect Platform



EDUCATOR PRO CONNECT

A platform that matches industry professionals with educators!
Register, build a profile and choose how you want to connect with industry professionals.
Schedule volunteers one time or multiple dates during the school year!

YN

Edit Profile

ABOUT SUPPORT INTERESTS

How Would You Like to Connect with Educators?

In-Person
 Video Conference
 Both

Preferred Connection Activities

Share my career journey and answer questions
 Provide content/subject consultation with a class
 Support students with a classroom project by asking questions and linking current industry standards to the project
 Consult with a teacher on designing a real-world classroom project
 Become a member of a CTE Advisory Committee
 Participate in an exhibit or school fair
 Participate as a judge of an event (e.g. science fair)

Start connecting today! *Register at EducatorPROConnect.org

- Over 225 Events have been requested by educators and professionals
- 55% of the request's focus on career journey and career pathways
- 45% focus on class content, career fair or judging at events
- Over 200 active professionals representing 78 different companies and 40 distinct occupational categories classified by BLS.
- Partnership with Mary Lou Fulton Teachers College to train professionals

Matching with Community Partners and Industry Professionals

Register @educatorproconnect.org

First Name * Last Name *
Lynn Jenkins

Email Address *
galebeauchamp+50@gmail.com

Phone *
(602) 697-2060

School District *
Maricopa County Regional School District

Name of School *
Hope College and Career Readiness Academy

Grade Levels You Teach *
 K-2 9-10
 3-5 11-12
 6-8

Create a Profile for your Classes/Events

Subjects/Content Areas

Subjects and/or content areas you teach, to be matched with our professionals

ARTS EDUCATION

CAREER TECHNICAL EDUCATION

- | | |
|---|--|
| <input checked="" type="checkbox"/> Accounting | <input type="checkbox"/> AgriScience |
| <input checked="" type="checkbox"/> Air Transportation | <input type="checkbox"/> Aircraft Mechanical |
| <input checked="" type="checkbox"/> Animation | <input type="checkbox"/> Architectural Drafting |
| <input checked="" type="checkbox"/> Automation and Robotics | <input checked="" type="checkbox"/> Automotive Collision Repair |
| <input checked="" type="checkbox"/> Automotive Technologies | <input checked="" type="checkbox"/> Bioscience |
| <input checked="" type="checkbox"/> Business Management | <input checked="" type="checkbox"/> Business Operations |
| <input type="checkbox"/> Cabinetmaking | <input type="checkbox"/> Carpentry |
| <input type="checkbox"/> Computer Maintenance | <input checked="" type="checkbox"/> Construction Technologies |
| <input type="checkbox"/> Cosmetology and Related Services | <input type="checkbox"/> Culinary Arts |
| <input type="checkbox"/> Dental Assisting | <input type="checkbox"/> Diesel Engine Repair |
| <input checked="" type="checkbox"/> Digital Communication | <input checked="" type="checkbox"/> Digital Photography |
| <input checked="" type="checkbox"/> Digital Printing | <input checked="" type="checkbox"/> Early Childhood Education |
| <input checked="" type="checkbox"/> Education Professions | <input checked="" type="checkbox"/> Electrical and Power Transmission Installation |

Tell Us About Yourself *

One or two sentences about you and your interests that will accompany your profile in search results, events, etc. [Help me](#)

I teach a variety of introductory CTE Courses. I teach using Project-based Learning and am looking for community members and professionals to support with career awareness and content enrichment for authentic projects.



















Keywords & Phrases *

Have a specific focus or other interests that industry professionals should know about them here.

Authentic Learning, Projects, Career Awareness and Pathways

Review Matches!

197 Matches

 Rachel Berger Electrical Engineer, Medtronic	 Lydia Wielgus Mechanical Engineer, Northern Arizona University
 Anne Landers Bioscience, Junior Achievement of Arizona	 Thomas Santilli Electrical Engineer, Legacy EV
 Erin McGehean Business and Finance, Center for the Future of Arizona	 George Pettit Urban and Regional Planners, Retired Public Management Professional
 Colleen Megowan-Romanowicz Chemistry, American Modeling Teachers Association	 Martin Becerra Media Communications, Maricopa County
 Meaghan Flaherty Sales Professions, Girls Who Code	 Mckenzie Hassell Business and Finance, Hasco
 Krys VanSlyke Media Communications, Spectro	 Pedro Reguera Electrical Engineer, APS Palo Verde
 LaNette Smith Business and Finance, Business	 Erica Sietsma Business and Finance, ESSA Ventures
 Kevin Dumcum Business and Finance, WESTMARC	 Sharon Shindel Environmental Scientist, Intel Retiree
 Monique Reveles Human Resources, Arizona State University	 Sunshine White Business and Finance, Delaware North

Office of the Maricopa County
School Superintendent
Steve Watson

Teachers Create an Event to Invite Professionals

- Specify the details and engagement outcomes to match with professionals
- Invite the Professionals

EDITING EVENT: SPACE PROJECT

Basics

Description

Details

Invites

2 ACCEPTED



Sara Zion
ACCEPTED • Invited 1 day ago



William Wingert
ACCEPTED • Invited 6 hours ago

4 PENDING



Ryan Teves
PENDING • Invited 1 day ago



Jon Filreis
PENDING • Invited 6 hours ago



Kenny Young
PENDING • Invited 1 day ago



Justine Tang
PENDING • Invited 6 hours ago

90 POTENTIAL MATCHES



Chelsea Bloom
Media Communications, Maricopa County
Department of Transportation



Claire Puccini
Mechanical Engineer, The Boeing Company

Email Notifications for Events

[EDU PRO Connect] Jaime has Invited You to Canyon Springs Family STEM Night



EDU Pro Connect <donotreply@educatorproconnect.org>
To Gale Beauchamp (CSS)

Reply Reply All

If there are problems with how this message is displayed, click here to view it in a web browser.

EDUCATOR PRO CONNECT

YOU HAVE BEEN INVITED TO AN EVENT

Jaime Hansen has invited you to an event:

Canyon Springs Family STEM Night

When:
March, 7, 2024 5:00PM - 7:00PM

Where:
Canyon Springs STEM Academy, 42901 N 45th Avenue, Anthem, 85086

Details:
STEM Night is a school-wide celebration of STEM projects from around campus and partnerships from across the community.

[VIEW DETAILS](#)

[EDU PRO Connect] Lynn Jenkins Will Attend Invitation to Bioscience Week



EDU Pro Connect <donotreply@educatorproconnect.org>
To Gale Beauchamp (CSS)

Reply

If there are problems with how this message is displayed, click here to view it in a web browser.

EDUCATOR PRO CONNECT

INVITATION ACCEPTED!

Lynn Jenkins has accepted your invitation to attend:

Invitation to Bioscience Week

When:
September, 25, 2023 7:00AM - 7:15PM

[VIEW DETAILS](#)

Example of Classroom Event with Professionals

Connect Classroom Content

Professionals share specific content and answer student questions

DESIGN THINKING PROCESS

Status: FINISHED
Created On: Sep, 01, 2022
Occurs At: Sep, 06, 2022 09:45 AM until Sep, 06, 2022 10:30 AM
Created By: Cara Summerfield
Connection Preference: VIDEOCONFERENCE
Grade Levels: 6-8

Description:
My class is learning about the design thinking process and I am looking for professionals who will talk about how they use and apply the design thinking process in their work. Attached worksheet for your reference is what the kids will be using to take notes.

Additional Documents / Information:

[6560_MAK_Design_Thinking_Work_Sheet_US_1810.pdf](#)

Details:

Office of the Maricopa County
School Superintendent

Design Thinking for Students

You've got a problem to solve - make a record to show how you use Design Thinking to find a solution!

Empathize
Who are you trying to help?
What do they need?

Define
What is the problem you are trying to solve?
How can you turn the problem into a 'How might we...?' question?

Ideate
How many ideas can you come up with?
What is your most original idea?

Prototype
Which idea will you try first?
What will you design to test your idea?

Test
What is working well?
What improvements could you make?

7th/8th Grade Content Area: Social Studies & CTE

How I use the Design Thinking Process in my Job!

Empathize

Who are you trying to help?
What do they need?

Empathize: Understand and Share Feelings

How do I Empathize in my career? What do I need to do to Empathize?

**Who am I creating a solution for?
What is their problem?
What do these people do?**

- ✓ Gathering Information / Research
- ✓ Interview/Meet/Discuss
- ✓ Talk to team members



David Villa

Most Requested Engagement

Professionals share a Career Journey and answer questions from students

About Me: Nayleth Ramirez

Born and Raised in Tucson, AZ

STEM Outreach Programs:

- Challenger Middle School
- Joined MESA
- MISS Adventure 2011

Joined Club: The Society of Hispanic Professional Engineers (SHPE)

- La Familia VP (17-18')
- Advancement of Latinx in Engineering (ALEX) VP (20-21')

Graduated Salutatorian from San Miguel HS in 2016

Interned all 4 years at Raytheon's Airport Site

Started as a Chemistry major (did not like it)

- Switched into Engineering
- It is OK to be undecided and switch around until you find something you love!*

SHPE National Convention in Kansas City 17' got an interview with Raytheon!

Graduated first generation Aug 21'

- BS Systems Engineering
- Minor in Cyber Security

Currently in M.Eng. Systems Engineering & Technology Management

- Rensselaer Polytechnic Institute

Full-Time Engr since Sep. 21'

- Support Model Based Engineering and Program Work

Senior Design Team implemented Design Thinking!

Interned Summer of 2018, 2019, 2020

During college:

- Studied Abroad
- Resident Assistant (Dorms)
- Mentor for Engineering Students
- SHPE Executive Board
- Volunteered

UA Microcampus in Phnom Penh, Cambodia

Raytheon Technologies

Who is Toyia?

Born in New Roads, LA and grew up in southern LA

Moved/changed schools 4 times across parishes and graduated from Bossier High School in north LA

*Star Athlete at each school: Basketball MVP, Track Star for Relay Team, Long Jump, Triple Jump and Hurdles.

High School Work Program: Interim Health Care

Worked 2 Jobs for 6 months after graduation: Backyard Burger, Grandy's/Baskin Robins, (did not like it)

Traveled the World

Some of the locations:

- States & Territories - TX, MS, MT, SD, WY, MA, NJ, GA, FL, OK, MD, AR, AZ, CA, NV, CO, GU, TN, OH, VA, PR, HI,
- Countries - Canada, Italy, Germany, Croatia, Austria, Switzerland, England, Djibouti, Egypt, Barbados, Qatar, Kuwait, Iraq

Completed Higher Education

Degrees:

- AA in Information Resource Management with the Community College of the Air Force (CCAF), BS in Computer Studies, and MS in Cyber Security both with University of Maryland University College (UMUC)

Credentials/Certifications:

- A+, Net+, Sec+ (CompTIA), ISACA (CISM), Project Management Professional (PMI), Personal Trainer (AFAA)

Defense Security Analyst, Department of Defense (DoD), Skills Bridge Internship for Veterans, General Information Technology (GIT)

Security Analyst, IT

Defense Technologist, Missiles and Defense

Chess Ass

Platform within a Platform using Keyword(s)

USER PROFILES











TeachSTEM

Role
x Professional 10

Status
 Active 9
 Deactivated 1

Job Field
 Chemical engineer 1
 Chemistry 1
 Computer and info... 1
 Environmental sci... 1
 Farm, fishing, an... 1
[Show all job field](#)

[Show All Filters](#)

Name	Company / School
 Angelica Pascua Industrial Engineer	On Semiconductor
 Kaci Fankhauser Environmental Scientist	SciTech Institute
 Delphine Longrie Materials Engineer	Medtronic
 Alexis Riche Geologist	Northern Arizona University
 Ramon Diaz Chemical Engineer	SCMPros LLC
 Jacob Draper Farm, Fishing, and Forestry	Northern Arizona University
 Christopher Ross Mechanical Engineer	Intel
 Ken Barat Chemistry	Laser Safety Solutions
 John Stream Computer and Information Technology	SwitchThink Solutions
 Gale Beauchamp MCSS Admin	MCSS

Name of Company *

On Semiconductor

Job Field at Company *

Please choose the closest high level match. Specific disciplines can be entered in the following Keywords & Phrases field.

Industrial Engineer

Keywords & Phrases *

Have a specific career focus or professional discipline that teachers should know about? List them here.

Supply Chain, Management Engineering, Production Planning, Material Planning, Capacity Planning, teachSTEM

EVENTS

CREATE REPORT 

teachSTEM

Name	Starts At	Created By	Rating
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Initiatives that Connect to EPC

AZ Bioscience Week 2021-2023

SEPTEMBER 25-29
ARIZONA BIOSCIENCE WEEK 2023
 Exploring Pathways to Life and Bioscience Careers

FREE ON-DEMAND ACCESS FOR TEACHERS AND STUDENTS!

CLASSROOM RESOURCES FOR TEACHERS:



MON., SEPT. 25—INTRODUCTIONS
 • Steve Watson, Maricopa County School Superintendent
 • Mary O'Reilly, Ph.D., Vice President, Bioscience Research Programs, Flinn Foundation

TUES., SEPT. 26—INDUSTRY SPOTLIGHT
 • Ursula Fletcher, MHA, RN, CPHQ, CPPS
 Nursing Quality Specialist,
 Department of Nursing, Mayo Clinic-Phoenix

WED., SEPT. 27—INDUSTRY SPOTLIGHT
 • Nicole Henry, RX District Leader, CVS—AZ, NM, TX
 Asst. Professor R. Ken Coit College of
 Pharmacy, U of A

THURS., SEPT. 28—INDUSTRY SPOTLIGHT
 • Brandi Skinner, RDH, Registered Dental Hygienist,
 Community Health Center of Yavapai
 • Amber Bahm, DNP, FNP, Doctor of Nursing Practice, Family
 Nurse Practitioner, Community Health Center of Yavapai

FRI., SEPT. 29—INDUSTRY SPOTLIGHT
 • Dr. Kara Block, MD, Pediatrician,
 Community Health Center of Yavapai
 • Samantha Johnston, PA-C, Physician Assistant,
 Community Health Center of Yavapai

REGISTER FOR FREE AT:
schoolsup.org/bioscience
 OR SCAN THE QR CODE >>>

#AZBioscienceWeek

Office of the Maricopa County
School Superintendent
 Steve Watson

FLINN FOUNDATION

SEPTEMBER 25-30
ARIZONA BIOSCIENCE WEEK 2022
 Exploring Pathways to Life and Bioscience Careers

FREE ON-DEMAND ACCESS FOR TEACHERS AND STUDENTS!

MON., SEPT. 26
 INTRODUCTIONS
 Steve Watson, Maricopa County School Superintendent
 Mary O'Reilly, Ph.D., Vice President, Bioscience Research Programs, Flinn Foundation

TUES., SEPT. 27
 INDUSTRY SPOTLIGHT
 Nathan Brent, RN, MSN/Ed,
 Senior Program Coordinator
 Center for Simulation and Innovation, U of
 Arizona College of Medicine - Phoenix

WED., SEPT. 28
 INDUSTRY SPOTLIGHT
 Dr. Raj Chakraborty,
 General Manager,
 Laser Components
 Detector Group, Life
 Sciences/Medicine

THURS., SEPT. 29
 INDUSTRY SPOTLIGHT
 Dr. Eric Lyons,
 Chief Science
 Officer, uPetsa

FRI., SEPT. 30
 CAREER PANEL
 Dr. Mario Blanco, President and CEO, Nanopec
 Dr. Rebecca Cook, Research Scientist, INanoBio
 Bridget Gessel, Registered Nurse and Case Manager, Mayo Clinic
 Asya Rudikoff, Physical Therapist, Director of Strategy and
 Innovation, Team Select Home Care

Facilitate a Solvett Challenge with students during October or November and share photos of the challenge and lesson recap. Up to ten teachers may be eligible for a \$100 gift card after sharing their challenge. More information at schoolsup.org/bioscience



REGISTER FOR FREE AT:
schoolsup.org/bioscience

#AZBioscienceWeek #BioscienceCareers

Office of the Maricopa County
School Superintendent
 Steve Watson

FLINN FOUNDATION

Monday, August 30, 2021
Medical Patent Challenge Launch (new available)
 Solve It—View challenge at: schoolsup.org/bioscience

Join the Office of the Maricopa County School Superintendent and Flinn Foundation to Kick off Arizona Bioscience Week, October 4-8, 2021 with Four Bioscience Events for Grades 6-12

Exploring Pathways to Life and Bioscience Careers
 Free for All Teachers and Students Across the Country!

Friday, September 17, 2021, 10:00am, MST
 STEM Pro Live
 Dr. Jeffrey Jensen and Medical student, Ashlee Starr, Midwestern University, Arizona College of Podiatric Medicine. Learn about experiences of a medical student and about medical patents.

Monday, October 4, 2021
 Special edition STEM Pro Live, 10:00am, MST
 Marysael Luna, Ph.D.—Biomechanics @ Exponent

Tuesday, October 5, 2021, 11:00am-11:40am, MST
Career Panel
 featuring Vicki Mayo: The TouchPoint Solution;
 Dr. Benjamin Ranzquist, UA/LivEndocrine/GenetiRate;
 Dr. Seema Plaisier, TGen; Bailey Bellaire, CND Life Sciences

Wednesday, October 6, 2021, 4:00pm-5:00pm, MST
High School Bioscience Programs Panel
 featuring Kim Rodgers, Mountain Ridge High School;
 Jeremy Janas, Tucson Magnet High School; Brenda Lundt,
 Santa Rita High School; Rachna Mathi, Arizona College Prep

Friday, October 8, 2021, 10:00am-10:45am, MST
Medical Patent Challenge Virtual Presentations
 Panel Members: Dr. Jeffrey Jensen, Midwestern University,
 AZ College of Podiatric Medicine; Carolina Marquez, Arizona
 State University, Entrepreneurship +Innovation Institute; Yani
 Deros, CEO, Co-Founder, CIRQ+, ATOM

#AZBioscienceWeek #BioscienceCareers

REGISTER FOR FREE AT:
schoolsup.org/bioscience

Office of the Maricopa County
School Superintendent
 Steve Watson

FLINN FOUNDATION

Office of the Maricopa County
School Superintendent
 Steve Watson

schoolsup.org/bioscience

Initiatives that Connect to EPC

AZ Bioscience Week 2023

schoolsup.org/bioscience

Tuesday - September 26



Industry Spotlight

Are you interested in creatively solving problems and working with teams to make a difference in the healthcare industry?

In this Industry Spotlight, **Ursula Fletcher, MHA, RN, CPHQ, CPPS**, a Nursing Quality Specialist at *Mayo Clinic in Arizona*, and Arizona Nurses Association Florence Nightingale Practice Award recipient, will share how she asks the "5 Why's" to solve problems and work with colleagues to review trends in data leading to innovative solutions in her workplace!

Ursula Fletcher is available to engage with your students through our Educator Pro Connect Platform.



URSULA FLETCHER
MAYO CLINIC-PHOENIX

[Ursula Fletcher](#)
[Career Spotlight](#)

SEPTEMBER 25-29
ARIZONA
BIOSCIENCE
WEEK
2023
Exploring Pathways
to Life and Bioscience
Careers

FREE ON-DEMAND
ACCESS FOR TEACHERS
AND STUDENTS!

CLASSROOM RESOURCES
FOR TEACHERS:

MON., SEPT. 25—INTRODUCTIONS

- Steve Watson, Maricopa County School Superintendent
- Mary O'Reilly, Ph.D., Vice President, Bioscience Research Programs, Flinn Foundation

TUES., SEPT. 26—INDUSTRY SPOTLIGHT

- Ursula Fletcher, MHA, RN, CPHQ, CPPS
Nursing Quality Specialist,
Department of Nursing, Mayo Clinic-Phoenix

WED., SEPT. 27—INDUSTRY SPOTLIGHT

- Nicole Henry, RX District Leader, CVS—AZ, NM, TX
Asst. Professor R. Ken Coit College of
Pharmacy, U of A

THURS., SEPT. 28—INDUSTRY SPOTLIGHT

- Brandi Skinner, RDH, Registered Dental Hygienist,
Community Health Center of Yavapai
- Amber Bahm, DNP, FNP, Doctor of Nursing Practice, Family
Nurse Practitioner, Community Health Center of Yavapai

FRI., SEPT. 29—INDUSTRY SPOTLIGHT

- Dr. Kara Block, MD, Pediatrician,
Community Health Center of Yavapai
- Samantha Johnston, PA-C, Physician Assistant,
Community Health Center of Yavapai

REGISTER FOR FREE AT:
schoolsup.org/bioscience
OR SCAN THE QR CODE >>>

#AZBioscienceWeek

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Steve Watson

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School Superintendent
Steve Watson

2023

BIOSCIENCE WEEK IMPACT

Exploring Pathways to Life and Bioscience Careers



Office of the Maricopa County
School Superintendent
Steve Watson

51,419
Total Viewers





113 Schools

44 schools outside of Maricopa County

67 School Districts

28 districts outside of Maricopa County

58
High
Schools

23
**Junior High/
Middle**
Schools

30
Elementary
Schools

2
Trade
Schools
(EVIT and WEST-MEC)

Question 2

Are you interested in learning more about bioscience, healthcare, and/or science careers from industry professionals?

65%

of the students are interested in learning more about bioscience/healthcare/or science careers from industry professionals



More Information Coming Soon!

A new three-year initiative for 6th-12 grades dedicated to Bioscience and Healthcare Career Awareness



Resource: STEM Pro Live -76 Archived Broadcasts

SHARE SKILLS AND PRACTICES USED IN THE CAREERS.

ANSWER QUESTIONS FROM STUDENTS AND TEACHERS.

SHARE CAREER JOURNEY AND EXPERIENCES.

LEARN ABOUT COMPANIES AND SPECIFIC INDUSTRIES.



Boeing Engineers Week



Tuesday, 02/09/2021
Solve It: Available Now!
View challenge at schoolsup.org/engineer
**Semi-Autonomous Propulsion
Design Challenge Launch**



Monday, 02/22/2021
STEM Pro Live
10:30am-11:00am MST
Spacecraft and Launch Systems,
featuring Tony Castilleja-Jr.,
Mechanical Engineer at Boeing

Join the Office of the Maricopa County School Superintendent and Boeing to Kick off Engineers Week, February 22-26, 2021 with Four Engineering Events for Grades 6-12

INSPIRE WONDER FROM SEABED TO DEEP SPACE

Free for All Teachers and Students Across the Country!



Wednesday, 02/24/2021
10:30am-11:15am MST
Engineering Career Panel
featuring engineers across various disciplines
sharing details about their careers as an engineer
with Boeing.



Friday, 02/26/2021
10:00am-10:30am MST
**Making Waves in Autonomous
Undersea Vehicles/Design
Challenge Closeout**

#EngineersWeek

#BoeingInspires




REGISTER FOR FREE AT:
schoolsup.org/engineer

Office of the Maricopa County
School Superintendent
Steve Watson



Access Video Recordings and Resources
@ [Schoolsup.org/industry-connections](https://schoolsup.org/industry-connections)




MCSSO Resources that Connect to EPC STEM Check-out Kits



SPONSORED ACTIVITY

30 Days Lost in Space STEM Challenge

Students will work alone or in teams to learn and apply basic coding and circuit skills while developing solutions to this real-world problem.






SCAN ME

Sphero Bolt Power Pack

What is it?
Get ready to add some excitement to your classroom with Sphero BOLT – the ultimate coding robotic ball! With a durable and waterproof design, all-day battery life, and advanced programmable sensors, BOLT can withstand even the most imaginative, out-of-the-box ideas. The BOLT Power Pack includes 15 programmable robots, an intuitive charging case, an Educator Guide, and accessories.


About



To learn more about this resource:

https://edu.sphero.com/files/103065419/61/files/BOLT_Power_Pack_Educator_Guide.pdf?v=1659995792

To Reserve:



SCAN ME


Show us how you did it: #PromisingPractices #FreeTeacherResources

Office of the Middlesex County School Superintendent
Steve Witzew

mcshoesup
schools22.org

STEM - Energy Kit

STEM Challenge: Think like an engineer and design a solution for a model of a car that can travel the furthest distance using stored energy.



1 DEFINE the problem

- Use available resources to list the issue.
- Write down the problem as you see it.
- Write up the detailed criteria you want the car to report!
- Write down the constraints you have available!
- How much time do you have? Other materials?

2 RESEARCH the problem

- How does it work? Make a rough sketch!
- What information can you use to make the design? Understand the problem!
- Consider multiple resources!

3 IMAGINE possible solutions

- What are some possible design ideas for your car?
- Think of as many ideas as you can!

4 CHOOSE the best solution

- Choose 1 idea to try.
- Make a working model and test it out!

5 BUILD a model or prototype

- Build your model based on your sketch/prototype.
- Find how an energy source (like a battery) can be used to make the car move.
- Think of a way to make the car move.
- Think of a way to make the car move.

6 TEST your solution

- Take notes on observations.

7 COMMUNICATE your solution

- Draw and label your design.
- Explain the design process to others and share your ideas.

EDUCATOR PRO CONNECT

Describe your solution. What is it and how it works?

Draw your design. Include labels.

Take a photo or video of your car at design and record it all.

Thank you! Please email us at stem@mcshoesup.com or let us know about things in the design process.

Office of the Middlesex County School Superintendent
Steve Witzew

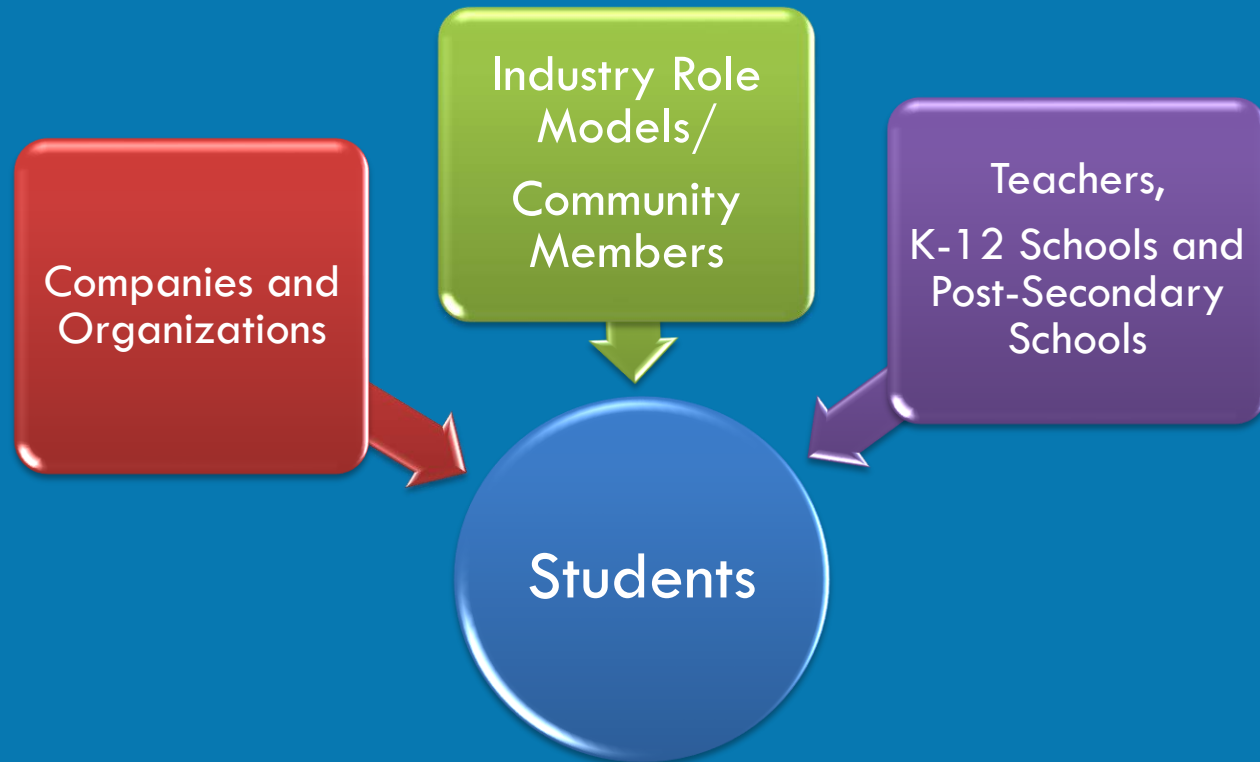
STEM Take-Home Kits

Check out one of our three STEM Take-Home Kits for your classroom!

- 30 Days Lost in Space STEM Challenge — A TSMC-sponsored challenge to help students learn and apply basic coding skills while developing solutions to a real-world problem
- Sphero Bolt Power Pack — A fun, engaging activity to teach your students programming and robotics with Sphero Bolts.
- STEM Energy Kit — Walk your students through the engineering design process as they challenge themselves to design a solution for a model car that can travel the furthest distance using stored energy.

CHECKOUT A TAKE HOME KIT

Partners in Developing *our* Future Workforce We ALL have a Role





Office of the Maricopa County
School Superintendent
Steve Watson

Office of the Maricopa County
School Superintendent

schoolsup.org

Gale.Beauchamp@Maricopa.gov

 [mcschoolsup](https://www.facebook.com/mcschoolsup)

 [@mcschoolsup](https://twitter.com/mcschoolsup)

 [@mcschoolsup](https://www.instagram.com/mcschoolsup)



Information/Discussion Only.

ASU STEM Programs

Advancing STEM Education

Adam Henry, Ed.D., Associate Director, Outreach & Recruitment,
Office of Academic and Student Affairs, Ira A. Fulton Schools of Engineering

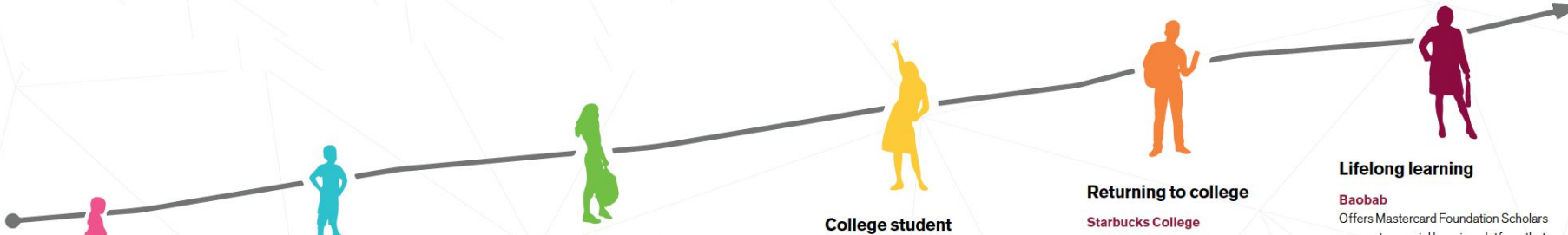
Brittany Holmes, Associate Director, Professional Skills and Workforce Development,
Global Outreach and Extended Education, Ira A. Fulton Schools of Engineering

Rachna Mathur, Sr. STEM Strategist, ASU Preparatory Academy

ASU charter

ASU is a **comprehensive public research university**, measured not by whom it excludes, but by **whom it includes and how they succeed**; advancing research and discovery of **public value** and assuming **fundamental responsibility** for the **economic, social, cultural and overall health** of the communities it serves.





Early childhood and pre-K

Child Development Lab

Provides quality education and care for young children and training for professionals and students pursuing careers serving children and families. The lab, one of the oldest continuously operated early childhood centers in Arizona, trains early childhood, child welfare and behavioral health professionals.

K-12 success and college prep

[ASU Preparatory Academy](#)

Operates site-based academies that serve PreK-12 Arizona students. ASU scaled this model through ASU Prep Digital, a virtual K-12 school that blurs the boundaries between traditional high school and college by offering access to college and high school courses.

Access ASU

Serves students, families and educators through a suite of signature programs designed to ensure all Arizona students graduate high school ready to thrive in college and career.

WeGrad

Trains parents to engage with schools and advocate for their children to have successful academic careers and prepare for college.

MACS Accelerator

Provides intelligent, personalized tutoring from Pre-Algebra to Calculus. MACS also empowers teachers by providing real-time reporting and indicators of student mastery and needs, allowing for focused interventions at critical points.

Planning for college

Project Benjamin

Boosts the number of college-going Arizonans with Benji, an AI chatbot filled with knowledge articles that guides students through the FAFSA application process.

[me3](#)

Offers high school and college students an interactive quiz-like resource for finding career paths that match their interests, as well as related college majors.

GEAR UP

Offers Arizona middle school students with intensive academic support through a U.S. Department of Education grant. The program provides student support through their first year of postsecondary education.

[ASU Study Hall + Crash Course](#)

A series of entry-level educational course videos developed by ASU faculty and Crash Course to expand access to academic content to a vast new audience. Hosted on YouTube, these videos include a combination of live action, photographs, animation and have a host who's engaging and relatable to the viewers.

College student achievement

ASU Online

Provides online undergraduate and graduate degrees and certificates to learners, with access to wraparound services including tutoring, career services, ASU Library resources and study abroad opportunities.

ASU Student Success Center

Offers peer coaching services inside and outside the classroom customized to individual strengths, interests and needs, including first-generation and out-of-state student experiences.

[ASU Local](#)

Scales affordable higher education models by designing a pioneering hybrid learning experience of ASU Online top-ranked programs with personalized student success and career coaching at local community sites in Los Angeles, Washington DC and Arizona where learners live and work.

Pat Tillman Veteran Center

Supports veterans, active duty military members, spouses and dependents to make a successful transition from military to civilian life by connecting them to ASU opportunities and services.

Returning to college

Starbucks College Achievement Plan

Enrolls Starbucks employees with ASU bachelor's degrees since 2014. The Pathway to Admission program has given academically inadmissible employees an alternative admission pathway to ASU degree programs.

[Universal Learner Courses \(ULCs\)](#)

Universal Learner Courses are a more equitable, low-risk, affordable, college-in-high school alternative to AP and concurrent enrollment programs that enable students to earn college credit stacking into bachelor's degree pathways. ULCs are in place at over 320 high schools, serving 40K learners with partners such as the National Education Equity Lab and KIPP.

Lifelong learning

Baobab

Offers Mastercard Foundation Scholars access to a social learning platform that provides mentorship and professional development such as soft-skill, leadership and entrepreneurship short courses.

Learning Enterprise - Upskilling

Provides flexible, non-credit courses and eight career bootcamps on a user-friendly online platform to learners who seek on demand skills and technical training.

ASU serves all learners, P-20 & beyond

ASU Prep Multiple Learning Models

Parent/Student Choice: How do you want to learn?

Hybrid & Microschool Programs

On-site / At School

ASU Prep South Phoenix
ASU Prep Phoenix
ASU Prep Polytechnic
ASU Prep Pilgrim Rest

ASU Prep Casa Grande



ASU Prep Phoenix Hybrid
ASU Prep Poly Hybrid



ASU Prep Learning Pods

ASU Prep Local



ASU Prep Experience

Flexible / At Home

ASU Prep Digital
Khan World School



Powered by
ASU Prep Digital Platform



ASU Prep's Mantra

All Kids Can

See themselves as a “**STEM Person**”

Have a “**STEM Mindset**” in all subjects

Confidently say “I don't know that... **yet**”

Mastering the Fundamentals

Robust **mathematical** foundations

Critical thinking and inquiry

Encourage **systems & design** thinking

ASU Prep STEM: A Four Pillar Strategy

Four Pillars of Prep's STEM Strategy

Four key workgroups across Prep work to actualize these ideas



Awareness & Experiences

Introduce and expand awareness of STEM through clubs, field trips, microschoools, expanding STEM curriculum, and summer camps



Pathways from K-12 to College

Expose students to high demand STEM careers through internships, early college courses, explore CTE strategy, & robust Math fundamentals



Partnerships ASU, Industry, Nonprofit

Strengthen and foster Prep-industry relationships, ASU collaborations, and non-profit relationships to support the other three pillars



Grants & Funding Public & Private

Find target funds that align with STEM programming through local, federal, NSF, Industry, and other grants and funding

Example Plans for 2023-2024+ Academic Year

Awareness & Experiences

Expand [Engineering Projects in Community Service](#) (EPICs), offer robotics in and out of school programs, design focused STEM Microschool experiences, support teachers

Partnerships ASU, Industry

[SME Ed. Foundation](#) industry fundraiser 10/19/23 program at Poly, collaborating with [SEMI](#) to expand digital PD & curriculum, [ASU Career Catalyst](#) for HS students, WIP Partnering with Intel, Semi, Microchip, etc

Pathways K-12 to College

Introduce STEM [Internships](#), field trips, job shadow with Semi, tech, other STEM partners [CTE research](#) ongoing to identify faculty with credentials, partners, funding.

Grants & Funding

Preparing to apply for external [Catalyze Grant](#), [NSF Discovery Grant](#), and [NSF Informal STEM Grant](#) as well as others.

Received \$50K internal funding for [robotics](#), STEM. SMME initiatives across immersion.

Robotics Initiative All ASU Prep Campuses

New program design and
internal funding for FLL & VEX
tinyurl.com/prep-robotics

Project based
learning for
integrative
STEM, inspire
STEM-related
careers



Girls Who Code Poly, Downtown, Digital

Partnership with Enterprise
Technology and GWC
girlswhocode.com

Counter
gender bias &
stereotypes,
ASU ET to
facilitate and
own clubs



STAM Center

SECURE, TRUSTED, AND ASSURED MICROELECTRONICS

Establishing the foundation for future secure, trusted semiconductor and microelectronics technologies



Secure Post-Quantum Communication
New Substrates • Edge Computing
New Computing Paradigms
Advanced Sensing

Adaptive and Secure Systems

STAM Center
Laboratories

Semiconductor Security
Computer Architecture
Private and Secure
Unconventional Substrates
Secure Systems

STEM and Emerging Technology Microschools at ASU Creativity Commons

Partnership with Fulton, STAM, & ASU ET

stamcenter.asu.edu

Focus on software, hardware, cybersecurity, AI, VR, and semiconductors

SEMI.org Collaboration

Partnership with SEMI to
explore PD & curriculum

www.semi.org



Share
SEMI.org
content
through AZVTI
distribution,
teacher kits



Ira A. Fulton Schools of Engineering





Find your future **here.**

Engineer it.

Make it.

Design it.

Build it.

Fly it.

Code it.

ASU Ira A. Fulton Schools of
Engineering
Arizona State University

Building engineers, inspiring innovators

Our transdisciplinary partners at ASU

College of Health Solutions
 College of Integrative Sciences and Arts
 Global Security Initiative
 Julie Ann Wrigley Global Futures Laboratory™
 School of Arts, Media and Engineering
 Herberger Institute for Design and the Arts
 School of Earth and Space Exploration
 The College of Liberal Arts and Sciences
 The Biodesign Institute
 W. P. Carey School of Business

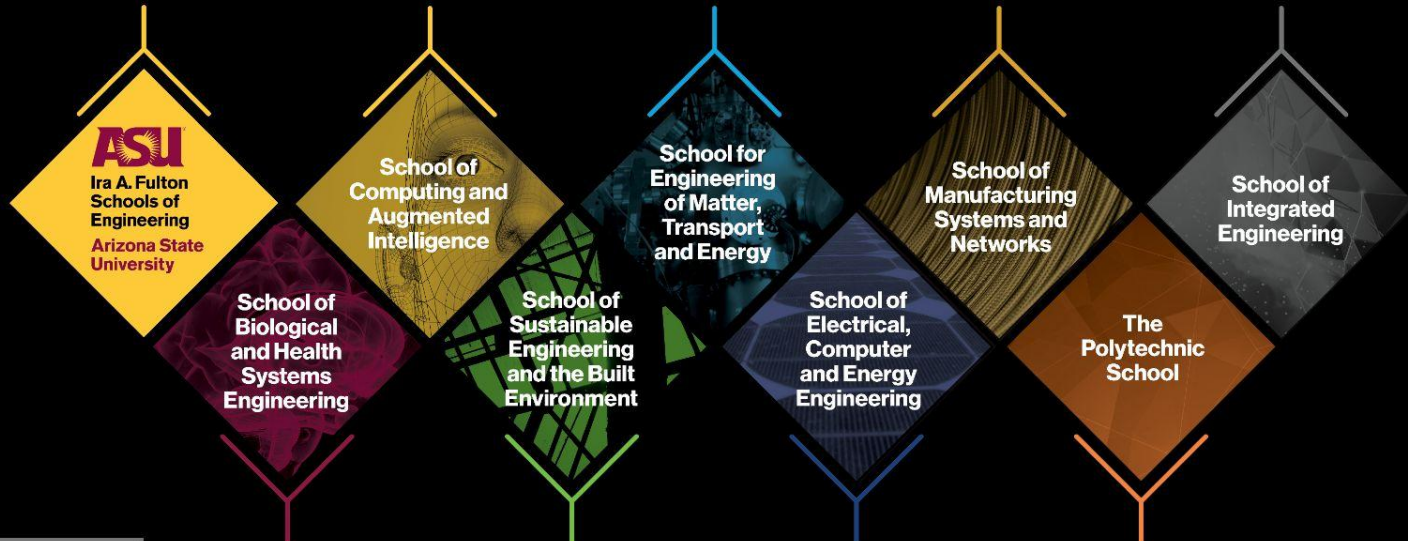
25+ undergraduate programs
 50+ graduate programs
 2 campuses+online

Computer engineering
 Computer science
 Computer systems engineering
 Data science, analytics and engineering
 Engineering management
 Industrial engineering
 Informatics
 Robotics and autonomous systems
 Software engineering

Aerospace engineering
 Biological design
 Chemical engineering
 Data science, analytics and engineering
 Materials science and engineering
 Mechanical engineering
 Modern energy production and sustainable use
 Robotics and autonomous systems

Manufacturing engineering
 Systems engineering
 Robotics and autonomous systems

Engineering science



ASU
 Ira A. Fulton
 Schools of
 Engineering
 Arizona State
 University

**School of
 Computing and
 Augmented
 Intelligence**

**School for
 Engineering
 of Matter,
 Transport
 and Energy**

**School of
 Manufacturing
 Systems and
 Networks**

**School of
 Integrated
 Engineering**

**School of
 Biological
 and Health
 Systems
 Engineering**

**School of
 Sustainable
 Engineering
 and the Built
 Environment**

**School of
 Electrical,
 Computer
 and Energy
 Engineering**

**The
 Polytechnic
 School**

Biomedical engineering
 Robotics and autonomous systems

Civil engineering
 Construction engineering
 Construction management
 and technology
 Data Science, analytics and
 engineering
 Environmental engineering
 Sustainable engineering

Computer engineering
 Data science, analytics
 and engineering
 Electrical engineering
 Robotics and autonomous
 systems

Aeronautical management technology
 Clean energy systems
 Data science, analytics and engineering
 Engineering
 Engineering education systems and design
 Environmental and resource management
 Graphic information technology
 Human systems engineering
 Information technology
 Robotics and autonomous systems
 Technological entrepreneurship and management
 Technology
 User experience

Advancing engineering design on a global scale

The Global School



The Engineering and Design Institute: London (TEDI)

Produce new kinds of graduates and attract new kinds of learners

EPICS High



EPICS High

- Engineering Projects in Community Service
- Service-learning program that engages middle and high school classrooms in working with stakeholders in their communities to develop solutions to real-world engineering problems.
- Proven engagement tool for developing a life-long appreciation for STEM and service learning in 7-12 students.
- Projects are funded by ASU and its generous donors
- Cycle 2 starts in January

Mark your calendars!

EPICS High Showcase: April 11, 2024 at 3pm in Memorial Union

FIRST[®] Robotics



FIRST[®] Robotics



FOR *I*NSPIRATION & *R*ECOGNITION OF *S*CIENCE & *T*ECHNOLOGY

**FIRST
LEGO
LEAGUE**



GRADES
PreK-8

AGES
4-14

Elementary, middle

**FIRST
TECH
CHALLENGE**



GRADES
7-12

AGES
12-18

Middle, high school

**FIRST
ROBOTICS
COMPETITION**



GRADES
9-12

AGES
14-18

High school

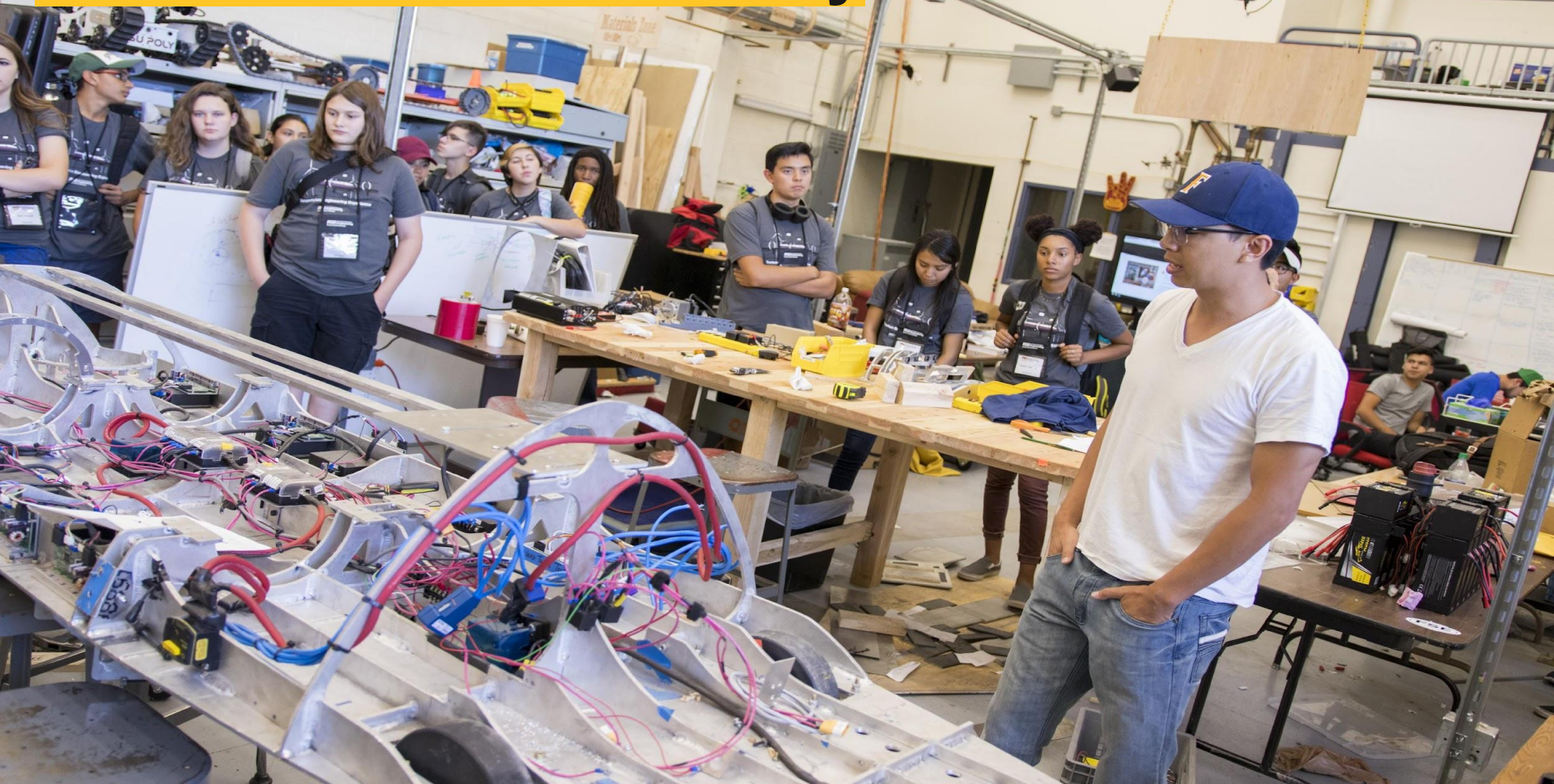
FIRST[®] Robotics

- Engage students in exciting, mentor-based, research and robotics programs that help them become science and technology leaders, as well as well-rounded contributors to society.
- Interest, rather than academic proficiency, is a greater predictor of children pursuing studies and careers in STEM fields.
- FIRST students are two times more likely to show an increase in STEM-related attitudes and interests than comparison group students.

Mark your calendars (and maybe volunteer?)

- Arizona FLL State Championship: January 13, 2024 at ASU Tempe campus
- Arizona FTC State Championship: February 17, 2024 at Brophy College Prep
- Arizona FRC Valley Regional: March 13-16, 2024 at Chaparral High School
- Arizona FRC East Regional: March 20-23, 2024 at Corona Del Sol High School

Fulton Summer Academy



Fulton Summer Academy

Our goal is to engage Arizona's K-12 students and create pathways that encourage them to become technically savvy, prepare for studies in science, technology, engineering and math (STEM)-related fields and pursue careers in engineering.

Summer camps* for rising high school juniors and seniors:

1. National Summer Transportation Institute
2. Summer Engineering Experience (Residential)
3. EPICS High Day Camp

*All summer 2024 camps will be posted on our website in Jan 2024.

Helpful websites

EPICS High

<https://outreach.engineering.asu.edu/k-12-programs/epics-high/>

Email: EPICSHigh@asu.edu

FIRST[®] Robotics

<https://www.firstinspires.org/>

FTC: email Christine Sapio at csapio@firstpartners.org

FRC: email Annalisa Regalado at aregalado@firstpartners.org

Fulton Summer Academy

<https://outreach.engineering.asu.edu/fulton-academy/>

Email: fultonschools@asu.edu

Microelectronics Workforce Development Hub





Microelectronics at ASU

microelectronics.asu.edu/workforce-development

I am a ... ▾	My goal is to ... ▾
I am a ... College student (current or prospective) (73) High school student seeking a degree (29) High school student seeking technical training (7) Technician seeking additional training (40) Working professional in the microelectronics industry (50) Working professional seeking career change (72)	My goal is to ... Develop expertise (21) Earn a bachelor's degree (20) Earn a doctoral degree (7) Earn a master's degree (18) Obtain a certificate (15) Obtain a digital badge (13) Obtain an industry certification (4)





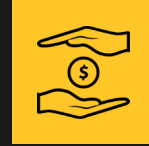
FLEXIBLE



ACCESSIBLE



STACKABLE



AFFORDABLE



AGILE

The Core Offering Fulton “Stackable Microcredentials”

Designed to provide learners with a flexible, bite-sized, and stackable learning pathway to build progressive knowledge and skill readiness in emerging technical & business fields.

Microcredentials: Sample Industry Verticals

Microelectronics
and
Semiconductor
Manufacturing

Aerospace,
Space, and
Defense
Manufacturing

Medical
Devices
Manufacturing

General
Industrial
Manufacturing

Thank you!

Adam Henry, Ed.D.

adam.keith.henry@asu.edu

Brittany Holmes

brittany.a.holmes@asu.edu

Rachna Mathur

rachna@asu.edu





Information/Discussion Only.
MCWDB Committee Member Forum:
Strategies for Connecting STEM Career Opportunities



WIOA Youth Workforce Services

Serving Teens And Young Adults Ages 14-24



Innovative Workforce Solutions

Equal Opportunity Employer/Program. Auxiliary aids and services are available upon request to individuals with disabilities. ARIZONA@ WORK Maricopa County Youth Services products and services are made available through federal funding provided by the Workforce Innovation and Opportunity Act; serving employers by aiding job seekers, adults, dislocated workers and youth.

WIOA Youth Program Funding Guidelines

WIOA guidelines require that Local Workforce Development Boards must dedicate at least 75 percent of youth program funds to provide services for out-of-school youth.

This provides an opportunity for youth providers to utilize the remaining difference to support in-school-youth who may need additional guidance and resources.

Determining In-School Status

- When a youth is in high school
- When they just completed high school and are registered to start postsecondary education but haven't started yet
- Youth attending High School Equivalency (HSE) programs funded by the public K-12 school system
- Homeschooled or attending public, private, or chartered secondary/postsecondary schools
- A youth is enrolled in any credit-bearing postsecondary education classes

Youth Eligibility

In-School vs. Out of School (Opportunity) Youth

Between ages of **14-21**, and be considered **low income** while answering yes to one of the following:

- Have you ever been arrested or in jail?
- Are you homeless?
- Are you currently in foster care, or have aged out of foster care?
- Do you have any children or are you pregnant?
- Do you have a disability?
- Are you an English language learner?



Between ages of **16-24** and answer yes to one of the following:

- Have you ever been arrested or in jail?
- Are you homeless?
- Are you currently in foster care, or have aged out of foster care?
- Do you have any children or are you pregnant?
- Do you have a disability?
- Did you drop out of high school and have not been able to get your GED or diploma?

Youth Elements

- Paid Work Experience
- Occupational Skills Training
- Support Services
- Financial Empowerment
- Labor Market Information
- Postsecondary Preparation
- ABE concurrent with Occupational Skills Training
- Entrepreneurship
- Adult Mentoring
- Counseling
- Follow-up Services
- Alternative Secondary School
- Leadership Development
- Tutoring

ISY Program Snapshot

FY23 vs. FY24(Jul-Dec)

ISY Program Outcomes	FY23	FY24 (Jul - Dec)
ISY Enrollments	30	8
ISY Participants	44	24
New Services Delivered to ISY	180	57
ISY Supported through Occupational Skills Training (OST)	8	1
ISY receiving Work Experience (WEX)	17	14
ISY Participants who received support services	23	34

Opportunities to Partner

- Increase collaboration with STEM programs at local high schools
- Direct referrals from STEM instructors
- Promote WEX opportunities with potentially eligible STEM students
 - Create videos of youth success stories of STEM and WEX.



WEX Benefits



● **Paid Work Experience**

Starting wages of \$16/hr with the potential for increases in wages depending on worksite and position.

● **\$500 Incentive**

A \$500 incentive for those who qualify

- Complete 320 hours of WEX starting in January 2024
- Be hired directly from your work experience if unable to complete 320 hours

● **Career Pathways**

Opportunities for career exploration and skill development in real-world settings

● **Employment**

Entry level employment opportunities

WEX Opportunities

Science

- Bloom365
- Allegiant Healthcare of Mesa
- Sweet Serenity Behavioral Health and Life Coaching

Technology

- AVMS
- Freelance Computers
- Moore Graphics
- Phat-Teez
- Freelance Computers

Engineering

- Borum Engineering
- WDS Architecture PLLC

Math

- Pioneer Cardiovascular Consultants (Billing)
- Accident Clinic (Billing)



Questions?