



Mid-Valley
STEM-CTE HUB



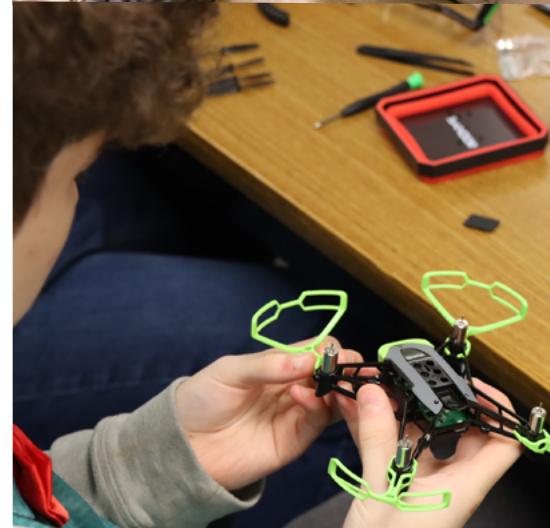
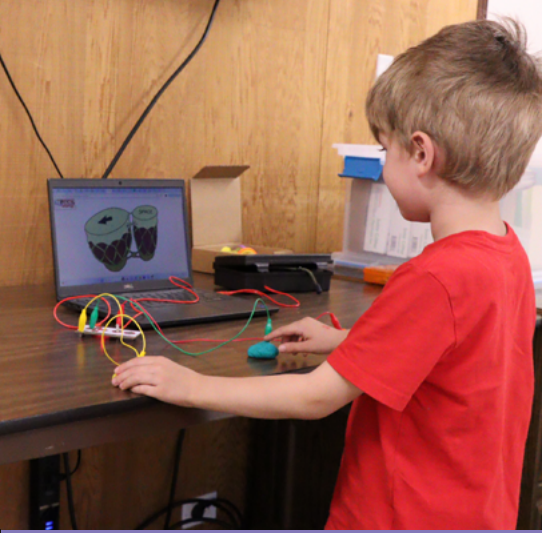
ANNUAL REPORT 2023-24

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*All photos taken by MVSCH staff



"THE TEAM FROM THE STEM HUB HAVE CREATED HANDS-ON EXPERIENTIAL LEARNING OPPORTUNITIES FOR OUR STUDENTS AND HAVE MODELED STEAM INSTRUCTION IN THE CLASSROOM FOR OUR TEACHERS.

THE HUB TEAM IS COMMITTED TO ENGAGING AND EXPOSING STUDENTS TO PROJECTS AND PERFORMANCE TASKS TIED TO CAREERS AND EXPERIENCES THAT STUDENTS CAN SEE THEMSELVES PURSUING LATER IN LIFE."

Steve Martinelli
Superintendent
Scio Public School District

FROM THE DIRECTOR'S DESK

Dear Community and Partners,

As we reflect on the past year, we are filled with pride and gratitude for the remarkable achievements and progress we've made as a Hub in collaboration with each of you on behalf of our communities. Your unwavering support and partnership have been instrumental in driving our mission forward, fostering innovation, and creating meaningful opportunities for our students.

This year, we embarked on several groundbreaking initiatives aimed at expanding access to Science, Technology, Engineering, Arts, and Mathematics (STEAM) education. From launching an innovative STEAM for the WIN program for special education to organizing hands-on workshops and community events, we have engaged thousands of young minds, inspiring them to explore and excel in STEAM fields. Our commitment to DEI has ensured that students from diverse backgrounds can participate and thrive in STEAM and CTE.

Our successes would not have been possible without the collective efforts of our dedicated partners. Your contributions—whether through funding, volunteering, or providing resources—have enabled us to make a tangible impact. We have seen students develop critical thinking skills, creativity, and a passion for learning that will serve them well into the future.

As we look ahead, we are excited about the possibilities the upcoming year holds. Together, we will continue to innovate, inspire, and empower the next generation of STEAM leaders. Thank you for being an essential part of this journey.

With gratitude,

Sarah Whiteside,
Director



HUB TEAM

AUSTYN MOON
Program Assistant

CHRIS SINGER
Program Coordinator

DOMINGA SANCHEZ
Education Outreach and Equity Specialist

FORREST JOHNSON
STEM Librarian & Makerspace Coordinator

JANICE HARDY
Fund Development Manager

KACEY MONTGOMERY
Marketing Specialist

KATHIE VOSPER
Administration Assistant

KELSIE SZESZULSKI
Program Coordinator

MACKENZEE REED
Program Assistant

SARAH WHITESIDE
Director

SVEA BRUSLIND
Program Assistant

The MVSCH team extends heartfelt gratitude for the unwavering support from the community and our partners over the past year. Your collaboration, trust, and commitment have been instrumental in our success. Together, we have achieved remarkable milestones and made significant strides in our efforts to expand STEAM and CTE learning opportunities in the region. Your belief in our vision has inspired us to push boundaries and strive for excellence. We are profoundly thankful for your dedication and partnership, which have empowered us to serve our mission. We look forward to continuing this journey together, driving innovation, and making a positive impact.

The Mid-Valley STEM-CTE Hub Team

AT A GLANCE:

2023-24 BY THE NUMBERS



10,847
STUDENT HOURS
IN HUB SUPPORT
PROGRAMS



2,323
EDUCATORS
PARTICIPATED
IN HUB
PROFESSIONAL
DEVELOPMENT OR
PROGRAMS

4,235
EDUCATOR HOURS
SPENT IN HUB
PROFESSIONAL
DEVELOPMENT AND
PROGRAMS

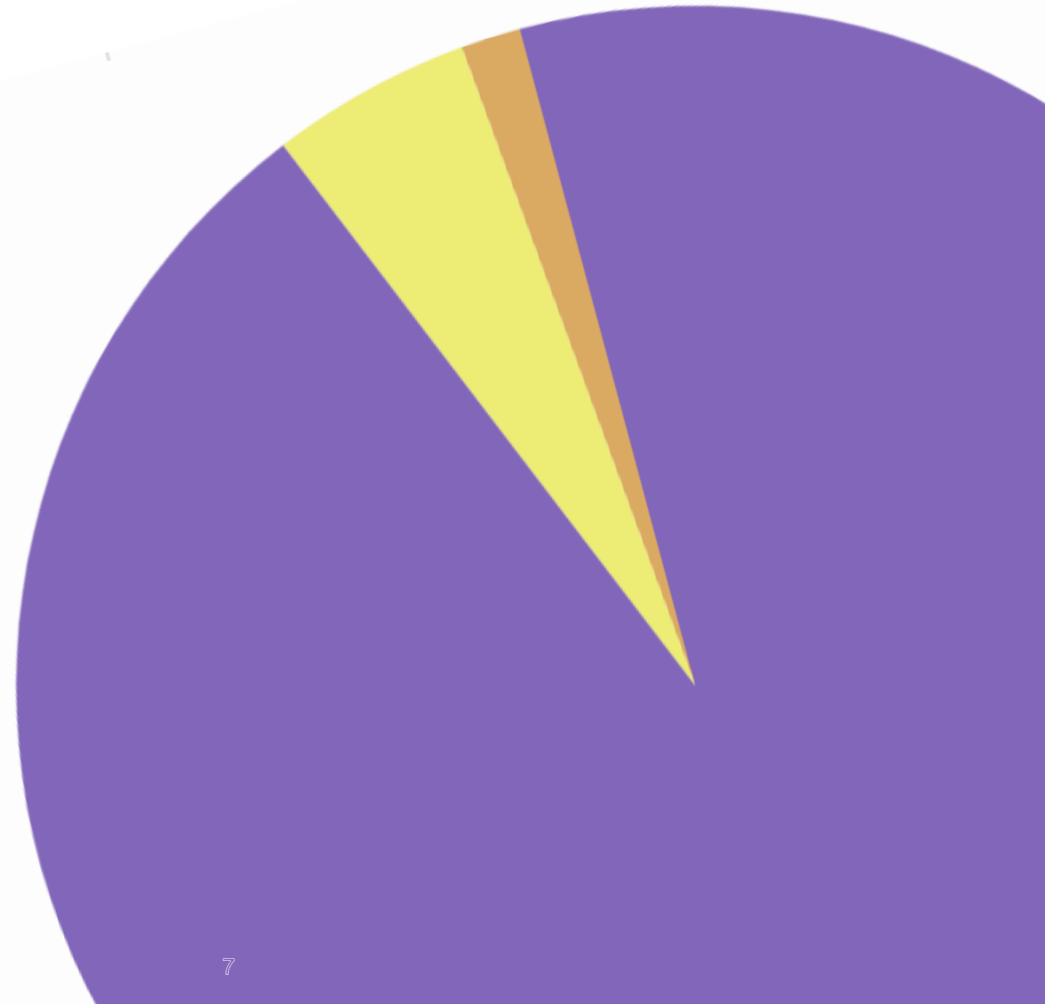


8,724
STUDENTS
IMPACTED BY
EDUCATOR
PROFESSIONAL
DEVELOPMENT
PARTICIPATION



2023-24 FUNDING SOURCES

- Grants and sponsorships
\$ 501,376
- In-kind time and
resources
\$ 7,631
- Partner investments
in Hub initiatives
\$ 25,629



6,631
STUDENTS
PARTICIPATED IN
HUB SUPPORTED
PROGRAMS



232
INDUSTRY
VOLUNTEER HOURS

1,819
STUDENTS
BENEFITTED FROM
EQUIPMENT
LOANING
PROGRAMS



118
INDUSTRY
VOLUNTEERS
PARTICIPATED IN
HUB ACTIVITIES



IN-SCHOOL STEAM INTEGRATION

Incorporating STEAM education into classrooms fosters collaboration, adaptability, and a growth mindset, essential skills for teamwork and overcoming challenges. This approach promotes equity and inclusion by providing learning opportunities to all students, bridging gender and diversity gaps in STEM fields.

MVSCH prioritizes integrating STEAM education within special education, life skills, and student resource spaces, often underserved in dynamic learning opportunities. MVSCH employs a playful

approach to STEAM, enhancing holistic thinking, problem-solving, and collaboration skills, building confidence and enthusiasm for learning. Tools we use in this effort include drones, Hot Wheels tracks, Snap Circuits, hand tools, and KEVA Planks. These hands-on methods make STEAM education accessible by creating a safe, inclusive, and engaging environment that encourages trial and error, creative thinking, and exploration through play.

This methodology inspired the STEAM FTW (For the Win) program, for special education and life skills students from Philomath High School and Kings Valley Charter School. Over the school year, students developed employability skills through career exploration, culminating in drone construction and piloting. The inaugural year was a remarkable success, profoundly impacting students and educators.

STEAM FTW empowered students

to take charge of their education by engaging in projects that allowed skill development and collaborative roles. The program included community engagement opportunities such as field trips to the Hub's MILL space, a family open-house event, and a Guinness world record attempt. The students' growth and confidence observed were tangible outcomes of integrating inclusive, exploratory, and experiential in-school STEAM learning integration.



"WATCHING STUDENTS' FACES LIGHT UP WITH DISCOVERY IS SO EXCITING AND FILLS ME WITH JOY. SEEING CONNECTIONS BEING MADE WITH THE HUB IS COMFORTING; THE HUB IS HELPFUL AND AVAILABLE TO ALL OF THE STUDENTS AND THEIR NEEDS. THE STUDENTS LOVED IT ALL. WE APPRECIATE THE HUB'S ENTHUSIASM!"

Saff Evans
Life Skills Teacher
Philomath High School

ENGLISH LANGUAGE LEARNERS

The English Language Learners program in the Philomath School District warmly invites families whose first language is not English to join their students in an exciting STEAM (Science, Technology, Engineering, Arts, and Mathematics) education journey.



At the monthly Emergent Bilingual Advisory Committee meetings, The Hub offers STEAM learning, hands-on activities, and expert guidance on various topics, including science and robotics.

EBAC leader Marina Castilla-Morser describes these events with The Hub as an engaging, and supportive learning experience for the whole family, fostering curiosity and creativity in students.

These events promote inclusivity and equity in education by ensuring that all students, regardless of their linguistic background, have access to enriching STEAM experiences.

Over the course of this program, The Hub has supported dozens of families grow closer through empowering families to explore STEAM concepts together.

"THE STEAM VISITS HAVE BEEN AN AMAZING PART OF THE YEAR. IT'S BEEN AWESOME TO WATCH MY STUDENTS COME OUT OF THEIR SHELL AND FOR THEIR CREATIVITY TO FLOURISH. THE STEAM ACTIVITIES HAVE ALLOWED THEM TO WORK OUT PROBLEM SOLVING SKILLS WHILE ALSO HAVING FUN."

Phoenix Ginder
Special Education Teacher
Harrisburg Middle School



HANDS-ON LEARNING ENGAGES 70% MORE SENSORY NEURONS THAN TRADITIONAL LEARNING METHODS.

WorldMetrics.org

MOBILE MAKERSPACE

"The Mobile Makerspace is so cool," students often exclaim. This vibrant van packed with gear and supplies brings hands-on STEAM projects to PK-12 students in Linn and Benton counties, reaching rural libraries, community organizations, and farmers markets.

These events provide opportunities for students to develop interpersonal skills like patience, active listening, and collaboration, as well as social awareness and cultural understanding. The activities also enhance creative reasoning and fine motor skills, foundational for future employability.

In the past year, the Mobile Makerspace established eight new partnerships and maintained regular visits to existing connections, facilitating over 2,000 hours of STEAM learning at 96 events in 2023-24.

Mobile Makerspace sessions include hands-on exploration projects such as:

- Electrical circuit cubes
- Leather-working
- Elephant toothpaste
- Gyotaku printing

80%
OF STUDENTS
SAY THEIR
KNOWLEDGE
OF STEM CAREERS
INCREASED
BECAUSE OF
AFTERSCHOOL
STEM PROGRAMS

"THE MOBILE MAKERSPACE GIVES MY STUDENT THE OPPORTUNITY TO WORK IN GROUPS AND LEARN HOW TO BE PATIENT AND LISTEN."

Parent of Mobile Makerspace participant



BY THE
NUMBERS

2,000
HOURS OF OUT
OF SCHOOL STEAM
LEARNING IN THE
REGION

1,600
STUDENTS
PARTICIPATED
IN MOBILE
MAKERSPACE
EVENTS

27
DISTINCT MAKER
PROJECTS
FACILITATED
FOR THE REGION
THROUGH THE
MOBILE
MAKERSPACE

96
HANDS-ON STEAM
MAKERSPACE
EVENTS IN
THE REGION

CAREER-CONNECTED LEARNING PROGRAMMING

NUESTRO FUTURO, a program that began to provide Albany's Latinx middle school students STEAM career exploration through investigating and exploring their cultural identities evolved and expanded in the 2023-24 year.

After the completion of the pilot program in Albany, Nuestro Futuro expanded in Lebanon's housing community, Colonia Paz. The program was updated in Lebanon to include more hands-on activities to teach students STEAM concepts like circuitry, data analysis, and engineering alongside a foundational cultural identity curriculum. Lessons and discussions were facilitated in Spanish and snacks were provided, reinforcing central aspects of the students' cultures.

In addition to the career exploration for local Latinx middle school students, Nuestro Futuro also played a pivotal role in developing the inaugural Latine High School Leadership conference at Linn-Benton Community College in collaboration with the college's

Diversity Equity and Inclusion office. The goal of the conference is to inspire more local Latinx students to enroll in postsecondary education after high school.

This event, with nearly 200 students in attendance, featured 35 highly engaging workshops (one of which was hosted in our makerspace, The MILL), 38 college and industry resource fair exhibitors, two keynote speakers, and three \$1200 scholarships awarded to students in attendance.

With a successful first year, next year's conference is already in the planning stages with goals for more students in attendance and a wider selection of offerings.

"THE LBCC DEI OFFICE'S PARTNERSHIP AND COLLABORATION WITH MVSCH HAS BEEN FRUITFUL IN THE PURSUIT OF WORKING TOWARDS OUR GOAL INCREASING ENROLLMENT OF LATINE STUDENTS IN POST-SECONDARY EDUCATION PROGRAMS."

Angel Dorantes, Ph.D.
Latino Outreach and Retention Manager
Linn-Benton Community College



With the enduring success of MVSCH's popular **EDUCATOR EXTERNSHIP** program in 2022-23, MVSCH understood the desire both industry leaders and educators had to connect for the success of preparing students for the workforce.

The 2024 program included 30 Linn and Benton county educators and connected with nearly a dozen local employers. During the program, educators were able to learn from industry leaders while touring their facilities and being able to ask questions on how their businesses operate. They also engaged in discussions about how to collaborate and prepare students with the skills they will need to succeed in obtaining positions and flourishing in these industries.

One educator, Molly Schulz from Philomath School District said, "Without this opportunity, I would have never known about these career options for my students."

2024'S INDUSTRY TOUR LINEUP INCLUDED:

- Knife River Training Center
- Central Electrical Training Center
- Institute for Applied Ecology
- Baldwin General Contracting
- Softstar Shoes
- Hewlett-Packard
- Alyrica
- Entek
- Calapooia Brewing
- NW Natural

STEM OCCUPATIONS ARE PROJECTED TO GROW 10.8% FROM 2021 TO 2031, COMPARED TO 4.9% GROWTH IN ALL OTHER CAREERS.

U.S. Bureau of Labor Statistics



"MVSCH HAS GROWN INTO A REGIONAL RESOURCE THAT SUPPORTS ALL LEARNERS TO GAIN KNOWLEDGE, INSIGHTS, AND SKILLS IN STEM FIELDS."

Ryan Noss
Superintendent
Corvallis School District

"THANK YOU SO MUCH FOR ALL YOU DO FOR OUR COMMUNITY!"

Cara Osborne
7th Grade Teacher
Sand Ridge Charter School



"OUR PARTICIPATION IN THE HUB HAS ALLOWED US TO CONNECT WITH EDUCATORS WHO WORK DIRECTLY WITH STUDENTS EVERY DAY TO DEVELOP THE WORKPLACE SKILLS OUR JOBS DEMAND. THIS TYPE OF COLLABORATION IS ESSENTIAL TO BUILDING THE DIVERSE, SKILLED, AND PREPARED WORKFORCE REQUIRED FOR OUR REGION TO FLOURISH."

Sama Shagaga
Partnership and Government Affairs
NW Natural



THE MILL

The Maker and Innovation Learning Lab, known as The MILL, is located on Albany's Linn-Benton Community College campus and has proven to be an important resource for the region.

The MILL is built on the principles of accessibility, inclusivity, hands-on learning, and open pedagogy. The MILL brings in a population of students that is as diverse as our region to create DIY projects using technology they may not otherwise have access to including:

- A variety of 3D printers
- 3D scanning
- Podcasting studio
- Soldering equipment
- CNC routers
- Sewing machines
- Laser cutters
- Woodworking equipment
- And much more!

The MILL's large interactive workspace has hosted over 70 educational events in 2023-24 with activities ranging from zine making to designing and coding robots to hand-building skateboards. The MILL, with its capacity to suit a wide range of educational experiences, is able to facilitate profoundly meaningful experiential learning opportunities for students.

Since its inception, The MILL has provided students with over 1500 hours of hands-on STEAM learning and professional development for more than 80 area educators. Area industry leaders have contributed to the success of The MILL by donating over 100 hours of volunteer time to support The MILL and mission of MVSCH.

To schedule a time to visit The MILL, please contact us at: MIDVALLEYSYSTEM.ORG/MILL.



IN 2023-2024
MORE THAN
900
STUDENTS AND
COMMUNITY MEMBERS
PARTICIPATED IN A
MILL CLASS OR EVENT



"RATHER THAN HAVE STUDENTS COMPILE A 4,000-WORD DOCUMENT AND ANTICLIMACTICALLY CLICK "SUBMIT" AS I HAVE DONE FOR YEARS, STUDENTS WENT TO THE MILL AND CREATED PHYSICAL ARTIFACTS THAT REPRESENTED THEIR WEEKLY SUBMISSION TO SHARE WITH THEIR CLASSMATES.

BRINGING THIS TYPE OF STUDENT ENGAGEMENT TO MEET ONE OF OUR COURSE'S LEARNING OUTCOMES WAS AN INCREDIBLY SUCCESSFUL ENDEAVOR FOR STUDENTS. THIS ALSO ENCOURAGED ENROLLMENT INTO HIGHER LEVELS OF ANTHROPOLOGY COURSES THE FOLLOWING TERM.

THE MILL REPRESENTS AN INTEGRAL SPACE ON CAMPUS THAT MEETS STUDENT DEMANDS AND THE GENERAL SENTIMENT OF YOUTH WHO ARE INCREASINGLY REFUSING TO OPERATE IN THE ERRONEOUS COMPARTMENTALIZATION OF THE HUMANITIES AND SCIENCES."

Lauren Visconti
Anthropology Professor
Linn-Benton Community College

EXPERIENTIAL LEARNING

MVSCH understands how important experiential learning is to long-term success and academic progress of students of all ages.

Students and educators report higher levels of classroom engagement and retention when students are presented with real-world scenarios and hands-on learning activities.

Experiential learning helps students build essential employability skills such as patience, interpersonal communication, and teamwork. Kinesthetic learning is an engaging practice that allows students to explore new ideas, think divergently, be creative, and work with others in meaningful ways.

One way MVSCH is contributing to the number of experiential learning opportunities in the region is by providing paid student-employee positions in our makerspace, The MILL, to students attending Linn-Benton Community College.



ASHER RICHMOND

MAJOR: Engineering
FAVORITE TOOL IN THE MILL: IPad
MOST INTERESTED IN LEARNING NEXT: Shaper Origin

"I do a lot of stuff in The MILL. Since I have experience in woodworking, I will often be tasked to use a variety of saws and the CNC router. Additionally, I'm learning CAD and 3D design, and have begun working with 3D printers to design organizers and accessories for The MILL.

I am pursuing a career in engineering, specifically the biomechanical and prosthetic fields. I enjoy thinking about how nature can be referenced in engineering and improving the science of that industry.

The most underrated skill engineers need is good communication, and I'm getting a lot of practice communicating and working with people while I'm in The MILL. I'm also getting a lot of hands-on experience with STEM equipment and techniques. Working in The MILL allows me to have all the tools needed to make and alter 3D designs so I can also work on personal projects that pique my interest in my free time. So really, I'm learning through play."



RAJ SIDHU

MAJOR: Psychology
FAVORITE TOOL IN THE MILL: Mat cutter
MOST INTERESTED IN LEARNING NEXT: Embroidery

"As a psychology major, a big part of my career choice is to work with people. Since I am an international student, working in **The MILL gives me experience interacting with people from different cultures than the one I grew up in.** Often when groups are coming in I am tasked with helping lead the students through the activities. I am getting daily practice in building good communication skills.

The hands-on projects, like cutting mat frames for posters, are what is great about working in The MILL. The projects give me a break from reading and writing on the computer all the time. I get to come in here and use my hands to make things. It feels like I am accomplishing something and that's a really rewarding, an instant dopamine boost!

I will use hands-on techniques and creative projects, with my future psychology clients. For example, when crocheting, you have to be present and pay attention to what you are doing instead of what you may be otherwise worried about. It's a great act of mindfulness."

THANK YOU TO OUR STUDENT EMPLOYEES

The Hub team gives a huge thank you to all of our student employees during the 2023-24 school year! Their contributions have enriched our programming and brightened our beloved makerspace, The MILL.

THANK YOU:

- ASHER RICHMOND
- JOSEPH MARR
- RAJ SIDHU
- SIERRA BRIGHTLY

These exemplary students contributed to the upkeep and development of the makerspace, fielded student questions during open hours, and assisted in leading classroom visits, class projects, and K-12 field trips. On top of their coursework and duties as employees, the students contributed their creativity and personal ethos to making The MILL an inclusive, welcoming, and diverse space for all students and community members that utilized the makerspace.



HANDS-ON EXPERIENCE IS INVALUABLE WHEN ENTERING THE WORKFORCE; EMPLOYERS SEEK CANDIDATES WITH NOT JUST THEORETICAL KNOWLEDGE BUT PRACTICAL SKILLS.

stemeducationguide.com

1,000
 EXPERIENTIAL LEARNING HOURS ACHIEVED BY STUDENT EMPLOYEES OF THE MILL

100
 ACCOMPLISHED FOR THE MILL AND LBCC BY STUDENT EMPLOYEE EFFORTS

70
 EDUCATIONAL EVENTS IN THE MILL WERE FACILITATED WITH THE HELP OF STUDENT EMPLOYEES



EARLY LEARNING

CHILDREN WHO ENGAGE IN SCIENTIFIC ACTIVITIES FROM AN EARLY AGE DEVELOP POSITIVE ATTITUDES TOWARD SCIENCE ... AND ARE MORE LIKELY TO PURSUE STEM EXPERTISE AND CAREERS LATER ON.

Joan Ganz Cooney Center, 2017

"THE HUB'S TRAINING SESSION I ATTENDED THIS YEAR WAS GREAT! I WAS SO HAPPY TO FIND IN-PERSON TRAINING FOR MYSELF AND MY STAFF. THE TRAININGS WERE PERFECT FOR OUR LICENSING BUT MORE IMPORTANTLY, THEY WERE FUN AND PUT A BREATH OF FRESH AIR BACK INTO WHAT WE DO."

Lori Mohr
Director of Early Learning Center
First United Methodist

STEAM education plays a crucial role in helping preschool children develop the skills and knowledge needed for success in school and beyond. The skills learned through STEAM activities are not only technical, such as coding and mathematics, but also foster personal and interpersonal growth, including perseverance, communication, and problem-solving. Fun and exploratory STEAM education prepares children for the future by equipping them with a strong foundation for the 21st-century workforce.

In the 2023-24 year, the focus shifted from visiting classrooms, which limited the number of students reached, to providing professional development opportunities for educators. These opportunities expanded skills for ongoing STEAM integration and student support. The professional development sessions raised awareness of

in-school STEAM integration and play-based learning techniques for young students. Training topics included:

- Building a math garden
- Incorporating 6 Bricks LEGO activities for early learners
- Creating inclusive and engaging learning environments
- Setting up a tinker space in the classroom

Additionally, as MVSCH strengthens partnerships with Early Learning Hubs, Child Care Resources, and Higher Education Partners, MVSCH will continue to advocate for and raise awareness of Early Learning STEAM through effective messaging.



BY THE NUMBERS

360
STUDENTS
IMPACTED BY
EDUCATOR PD
PARTICIPATION

200
HOURS OF
EDUCATOR
PD FACILITATED
BY THE HUB

36
EDUCATORS
PARTICIPATED IN
HUB PD

CLOSING THE GAP

BROADENING REPRESENTATION

The **CLOSING THE GAP PODCAST** aims to diversify the voices representing STEM and skilled trades in educational and professional spaces. We recognize that feeling welcomed in a space often requires seeing others with whom one can identify. A 2022 study found that only 16.5% of engineering jobs and 35% of all STEM positions were held by women, despite women earning 50% of all science and engineering bachelor's and associate's degrees in 2023.

Closing the Gap highlights women and gender minorities on their paths to fulfilling STEM careers, helping to alleviate feelings of isolation and working towards eliminating the gender and diversity gap.

In the 2023-24 year, the fourth season of Closing the Gap featured 12 guest speakers, including a welding student, a biology Ph.D. candidate, and a recently retired engineer. The show grew in listenership, receiving 375 downloads, and partnered with the spirited duo from Women in Science PDX's podcast, W.I.S.terhood.

Additionally, Closing the Gap, in collaboration with The MILL, has established a high-quality podcasting studio with industry-standard equipment, accessible to LBCC students and the community. This initiative promotes diverse representation by providing guidance on producing podcasts and offering free to low-cost publishing options, resulting in an influx of community voices sharing inspiring stories.



"STEM FIELDS WERE HISTORICALLY BUILT BY A SMALL NUMBER OF PRIVILEGED INDIVIDUALS, CREATING BIAS AND LIMITED PERSPECTIVES. ALTHOUGH THERE HAVE BEEN IMPROVEMENTS, THERE IS STILL MUCH WORK TO BE DONE. EXPOSING STUDENTS TO DIVERSE REPRESENTATION IN THESE FIELDS ALLOWS THEM TO ENVISION THE POSSIBILITY OF A STEM CAREER, INSPIRING THE NEXT GENERATION TO CONTINUE CHANGING THINGS FOR THE BETTER."

Alice Welch
Integrative Biology Ph.D. candidate
Oregon State University

QUEER MAKER MEET-UP

In collaboration with Highland Woodshop, Queer Maker Meet-Up was created to engage and specifically include local LGBTQIA++ students and community members. Over five bi-monthly events, Queer Maker Meet-Up has brought together over 25 participants to skillshare, create, and network.

Event themes have included fiber arts, woodworking, and design. Participants are encouraged to bring their current projects, but project prompts, equipment, and materials are also provided, allowing them to try new methods and develop novel skills.

This program introduces participants from an underserved community to makerspaces and the diverse tools and equipment available. By creating these inclusive opportunities for growth and exploration, we aim to increase LGBTQIA++ representation in STEAM and inspire queer students to pursue STEAM passions and careers.



QUEER MAKER MEET-UP

APRIL 24, 2024
6 - 8 PM
THE MILL MAKERSPACE @ LINN-BENTON COMMUNITY COLLEGE IN ALBANY

RSVP TO MONTGOK@LINNBENTON.EDU FOR DIRECTIONS.

THE QUEER MAKER MEET-UP IS A FREE EVENT WHERE QUEER-IDENTIFIED MAKERS AND ALLIES CAN MEET-UP, NETWORK, AND TALK SHOP.

AT THIS EVENT, WE WILL BE EXPLORING FIBER ARTS, FROM SEWING TO KNITTING, WEAVING, AND BEYOND! ATTENDEES ARE WELCOME TO BRING THEIR OWN PROJECTS TO WORK ON. LET'S SKILLSHARE!



"THE SKILL SHORTAGE WE FACE IN THE FIELD OF STEM MAKES PROPORTIONATE REPRESENTATION OF WOMEN AN ECONOMIC AND SOCIAL IMPERATIVE. IN ADDITION TO CREATING CAREER PATHWAYS FOR THE ECONOMIC EMPOWERMENT OF WOMEN, WE WILL FUEL INNOVATION BY TAPPING INTO MUCH NEEDED DIVERSE THOUGHT AND APPROACHES."

Sarala Paliwal - Engineer
CTG guest speaker

LB SPORTSCAST

LBCC student Collin Butrlakorn is making significant use of the podcast studio for his new series, "LB Sportscast." As a BIPOC student and aspiring sports announcer, Butrlakorn is gaining attention in the local sports community with his engaging interviews of college athletes.



375
CLOSING THE GAP
DOWNLOADS IN
2023-24 YEAR

13
VOICES OF WOMEN
AND GENDER
MINORITIES
ELEVATED

25
LGBTQIA++
PARTICIPANTS
ENGAGED IN
STEAM LEARNING
AT QUEER MAKER
MEET-UP EVENTS

"I WAS ABLE TO USE THE SPHERO ROBOT PACK WITH MY SECOND GRADE CLASS AS AN ENRICHMENT ACTIVITY AND AN EXTENSION TO OUR MINI-CODING UNIT WITH HOUR OF CODE IN DECEMBER. I LOVE THAT WE CAN ACCESS THESE MATERIALS AND BRING EXPERIENCES TO STUDENTS OF DIFFERENT BACKGROUNDS AND SKILL LEVELS, THAT THEY WORK TOGETHER AS A LEARNING COMMUNITY AND GET TO TRY SOMETHING MORE TANGIBLE THAT JUST ON THEIR CHROMEBOOK SCREEN."

Jaime Willoughby
Second Grade Teacher
North Albany Elementary School



EDUCATOR LENDING LIBRARY

The Educator Lending Library is a free resource available to in and out-of-school educators in Linn and Benton counties. The collection of over 90 loanable STEAM learning devices and ready-to-use kits some of which include:

- Books
- Robots
- A shake table
- 3D pens
- iFixit kits
- Strawbee kits
- Sumblox

The materials are easy to reserve and can be conveniently picked up at any Linn County library or in The MILL, making STEAM learning accessible to all classrooms in our region. The Educator Lending Library is an ever-growing treasury of exciting hands-on devices and tools that will spark inspiration with students in any classroom.

If you want to borrow something from the Educator Lending Library for your classroom visit the [LENDING LIBRARY CATALOG](#) on our website.

30
CLASSROOMS &
OUT-OF-SCHOOL
PROGRAMS HAVE
ACCESSED THE
LENDING LIBRARIES
RESOURCES IN THE
2023-24 YEAR

2,000
STUDENTS IN
LINN AND BENTON
COUNTIES HAD
ACCESS TO
LENDING LIBRARY
RESOURCES

90
ITEMS AVAILABLE
FOR CHECK OUT
THROUGH THE
LENDING LIBRARY



SCHOLARSHIPS

As part of our advocacy for STEAM and career-connected learning in regional classrooms, we prioritize ensuring students have the resources they need to achieve economic prosperity while attending STEM and skilled trades higher education programs. This commitment led to the development of the Mid-Valley STEM-CTE Hub Scholarship.

Each year, the Mid-Valley STEM-CTE Hub awards one \$2,500 scholarship to one graduating senior from a Linn or Benton County high school. The recipient must have completed all requirements, been accepted into one of 13 qualifying CTE

programs at LBCC and take part in the CTE Signing Day event. This scholarship is renewable for two years at \$1,250 annually.

We congratulate our 2024 scholarship recipient, Kylee Mills (pictured above on the left with program chair Jenny Strooband), from East Linn Christian Academy in Lebanon, Oregon. Kylee will attend LBCC in the fall as part of the newest cohort of the Animal Technology program.

Contributions to the MVSCH Fund through the Linn-Benton Community College Foundation help provide more scholarships to students pursuing their education at LBCC.



“STUDENTS SAY THEY FEEL LIKE THEY ARE PLAYING AND LEARNING AT THE SAME TIME WITH STEAM. WE ARE WATCHING THEIR SELF-ESTEEM RISE ALONG WITH THEIR COURAGE TO TAKE RISKS WHILE LIVING IN THE TENSION OF LEARNING IN THE CLASSROOM WHEN ENGAGING WITH THE HUB TEAM.”

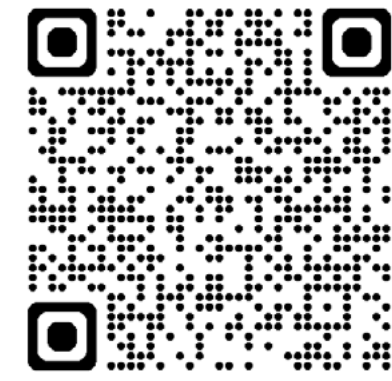
April McKinney
Special Education teacher
Philomath High School



SUPPORT THE HUB

The Mid-Valley STEM-CTE Hub serves the Linn and Benton County communities. Our mission is to create equitable access to STEAM & CTE opportunities throughout the region. In partnership with educators, industry, families, students, nonprofits, and community-based organizations, we promote opportunities for students to develop the fundamental STEAM & CTE-enabled skills and mindsets necessary to prosper. The impactful work facilitated by the Hub to increase access to quality career-connected learning, as well as STEAM and CTE education, relies on grant funding and partner support.

To make a financial contribution to the Hub and help us expand our work, please scan the QR code.



Alternatively, you can gift support to the Hub by visiting the [‘GIVE’ PAGE AT MIDVALLESTEM.ORG.](https://www.midvalleystem.org/give) If you have a particular Hub program in mind for your donation, please reach out to our Director, Sarah Whiteside, via email at [WHITES@LINNBENTON.EDU.](mailto:whites@linnbenton.edu) Your generosity makes a significant impact in our region and is deeply appreciated.

“THE MID-VALLEY STEM-CTE HUB ARE INNOVATIVE LEADERS IN STEM, CAREER-CONNECTED LEARNING, AND EDUCATOR-INDUSTRY PARTNERSHIP DEVELOPMENT IN THE LINN-BENTON REGION. AS THE REGION’S CCL SYSTEMS NAVIGATOR, I HAVE NO STRONGER PARTNER THAN MVSCH IN OUR WORK TO EQUITABLY GROW CAREER-CONNECTED LEARNING OPPORTUNITIES FOR BOTH K-12 STUDENTS AND EDUCATORS ACROSS THE REGION.”

Deron Fort
Career Connected Learning Systems Navigator
Linn-Benton Community College

A BIG SPECIAL THANK YOU TO OUR LEADERSHIP TEAM

Lisa Avery
 Erik Fedler
 Debra Gale
 Kelly Goforth
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 Victor Villegas



OUR SPONSORS



MVSCH is deeply grateful to our generous sponsors for their invaluable support and commitment to our mission. Your funding has been instrumental in driving our projects forward and enabling us to achieve remarkable milestones. Your belief in our vision empowers us to continue our important work, making a significant impact in our community. Thank you for your unwavering support and for partnering with us to make a difference. We deeply appreciate your contributions.

OUR PARTNERS

OUR PARTNERSHIPS WITH THESE EXCEPTIONAL BUSINESSES, PROGRAMS, AND INDIVIDUALS FROM LINN AND BENTON COUNTIES AND BEYOND ENABLE US TO SERVE OUR COMMUNITIES AND SUPPORT A CULTURE OF EQUITABLE ECONOMIC PROSPERITY.

- ALBANY PARKS AND RECREATION
- ALBANY PUBLIC LIBRARY
- ALBANY PUBLIC SCHOOLS FOUNDATION
- ALSEA PUBLIC LIBRARY
- ALSEA SCHOOL DISTRICT
- ALYRICA
- AMERICAN ASSOCIATION OF UNIVERSITY WOMEN
- AMERICAN FARMLAND TRUST
- ATI
- BALDWIN GENERAL CONTRACTING
- BENTON COMMUNITY FOUNDATION
- BENTON SOIL AND WATER
- BOYS & GIRLS CLUB OF ALBANY
- BOYS & GIRLS CLUB OF THE GREATER SANTIAM
- BROWNSVILLE PUBLIC LIBRARY
- CALAPOOIA BREWING
- CALAPOOIA FOOD ALLIANCE
- CALAPOOIA MIDDLE SCHOOL
- CALAPOOIA WATERSHED
- CASA LATINOS UNIDOS
- CENTRAL ELECTRICAL TRAINING CENTER
- CENTRAL LINN SCHOOL DISTRICT
- CENTRAL OREGON STEM HUB
- CENTRAL WILLAMETTE CREDIT UNION
- CODEFELLOWS
- COLONIAL PAZ
- COLUMBIA GORGE STEM HUB
- CORVALLIS - BENTON COUNTY PUBLIC LIBRARY
- CORVALLIS FOR REFUGEES
- CORVALLIS PARKS AND RECREATION
- CORVALLIS SCHOOL DISTRICT
- CSFORALL
- DAX
- EARLY LEARNING HUB FOR LINN, BENTON, AND LINCOLN COUNTIES
- EAST METRO STEAM PARTNERSHIP
- ELEMENT GRAPHICS
- ENTEK
- FAMILY CONNECTIONS LBCC
- FRONTIER STEM HUB
- FTW ROBOTICS
- GRAY FAMILY FOUNDATION
- GREATER ALBANY PUBLIC SCHOOLS
- GREATER OREGON STEM HUB
- HARRISBURG SCHOOL DISTRICT
- HARRISBURG PUBLIC LIBRARY
- HIGHLAND WOODSHOP
- HINTERLAND EMPIRE
- HEWLETT-PACKARD
- INSTITUTE FOR APPLIED ECOLOGY
- INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKS LOCAL 280
- JOHN AND GINGER NIEMEYER FOUNDATION
- KNIFE RIVER TRAINING CENTER
- LANE COUNTY STEM HUB
- LBCC ACCESSIBILITY RESOURCES
- LBCC CAREER CONNECTED LEARNING NAVIGATOR
- LBCC COLLEGE WORK EXPERIENCE
- LBCC COLLEGE TECHNICAL EDUCATION (CTE)
- LBCC EQUITY CENTER (DEI)
- LBCC FOUNDATION
- LBCC HEALTHCARE OCCUPATIONS
- LBCC HUMAN DEVELOPMENT AND FAMILY SERVICES
- LBCC PEACE INITIATIVE
- LBCC SUMMER CAMP PROGRAM
- LBCC TEXTBOOK AFFORDABILITY
- LBCC VISUAL COMMUNICATIONS STEERING COMMITTEE
- LEBANON COMMUNITY SCHOOL DISTRICT
- LEBANON FIRE DISTRICT
- LEBANON PUBLIC LIBRARY
- LINN-BENTON COMMUNITY COLLEGE
- LINN BENTON LINCOLN ESD
- LINN BENTON NAACP
- MAKERS MAKING CHANGE
- MAXTIVITY ARTS AND CRAFTS CREATIVE SPACE
- MIDCOAST WATERSHEDS COUNCIL
- MONROE FARMERS MARKET
- MONROE PUBLIC LIBRARY
- MONROE SCHOOL DISTRICT
- NORTHWEST OREGON WORKS
- NORTHWEST STEM HUB
- NW NATURAL
- OPHELIA'S PLACE - ALBANY
- OREGON ASSOCIATION OF EDUCATION SERVICE DISTRICTS
- OREGON COAST STEM HUB
- OREGON DEPARTMENT OF EDUCATION
- OREGON COMMUNITY FOUNDATION
- OREGON FREEZE DRY
- OREGON STEM
- OSU COLLEGE OF ENGINEERING
- OSU DEPARTMENT OF FISHERIES, WILDLIFE, AND CONSERVATION SCIENCES
- OSU COLLEGE OF OCEANIC, EARTH, AND ATMOSPHERIC SCIENCE (CEOAS)
- NO DINX
- PACIFIC POWER FOUNDATION
- PERIWINKLE CHILD DEVELOPMENT CENTER
- PHILOMATH SCHOOL DISTRICT
- PORTLAND METRO STEM PARTNERSHIP AND MULTNOMAH ESD (ESSER NUESTRO FUTURO)
- QSL PRINTING
- RAINBOW DANCE THEATRE / DARRYL THOMAS
- ROSEBURG FOREST PRODUCTS
- ROUNDHOUSE FOUNDATION
- SAMARITAN HEALTH SERVICES
- SANTIAM CANYON SCHOOL DISTRICT
- SCIO PUBLIC LIBRARY
- SCIO SATURDAY MARKET
- SCIO SCHOOL DISTRICT
- SOFTSTAR SHOES
- SOUTH METRO-SALEM STEM PARTNERSHIP
- SOUTH SANTIAM WATERSHED COUNCIL
- SOUTHERN OREGON STEM HUB
- SWEET HOME SCHOOL DISTRICT
- SWEET HOME PUBLIC LIBRARY
- SWEET HOME AND LEBANON DOWNTOWN FARMERS MARKET
- TALENT MAKER CITY
- UMPQUA VALLEY STEAM HUB
- VIVACITY SPIRITS
- WESTERN STATES CARPENTERS APPRENTICESHIP TRAINING
- WILLAMETTE WORKFORCE PARTNERSHIPS
- MID-WILLAMETTE FAMILY YMCA
- WOMEN IN SCIENCE PDX / W.I.S.TERHOOD
- YOUTH DEVELOPMENT DIVISION

LOOKING AHEAD

As we look to the year ahead, our commitment to equity in STEAM and CTE education is stronger than ever. We are focused on inspiring the next generation of innovators with transformative learning experiences to ensure every student has the opportunity to excel in science, technology, engineering, arts, and mathematics.

We believe that curiosity and creativity are key to driving positive change, and with your support, we can equip our future leaders with the skills they need to succeed. We look forward to working together to make our region's future extraordinary.



Mid-Valley
STEM-CTE HUB



WWW.MIDVALLEYSTEM.ORG

