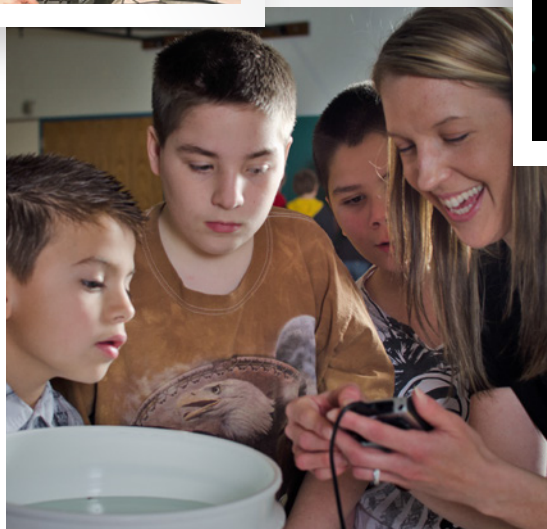




Mid-Columbia STEM Education
COLLABORATORY
Inspire. Innovate. Impact.

Business & Implementation Plan



Inspire...

Innovate...

Impact...

Table of Contents

1	Founding Members
3	Affiliated Organizations
5	Design Team
9	Operations
11	Initial Projects
15	Introduction
19	About Us
21	Our Needs
23	Local Assets
33	Our Opportunity
35	Our Plan
37	Governance Structure
39	Our Logic Model
41	Phases
49	Contact Information

Founding Members

The Founding Members have a strong interest in science, technology, engineering and mathematics (STEM) education and are playing important roles in the design, launch, implementation and sustainability of the Mid-Columbia STEM Education Collaboratory.



WASHINGTON STATE
LASER
Leadership & Assistance for Science Education Reform

Delta
High School


Pacific Northwest
NATIONAL LABORATORY


MESA *Mathematics
Engineering
Science
Achievement*

Affiliated Organizations

The following organizations are members of coalitions (i.e., alliances combined for action) that support the work of the Delta Partnership, the SE LASER Alliance and/or the MESA Center. As such, they are affiliated with Mid-Columbia STEM Education Collaboratory efforts.

- Battelle
- Christ the King School (Private School)
- Columbia Basin College
- Columbia School District
- Educational Service District #123
- Finley School District
- Kadlec Regional Medical Center
- Kennewick School District
- Pasco School District
- Richland School District
- Laser Interferometer Gravitational Observatory (LIGO)
- Washington State STEM Education Foundation
- Washington State University Tri-Cities

WASHINGTON STATE
STEM
EDUCATION
FOUNDATION



KADLEC



Battelle

The Business of Innovation



WASHINGTON STATE
UNIVERSITY
TRI-CITIES



Design Team

- Pacific Northwest National Laboratory
 - Jeff Estes, STEM Education (Project Manager)
 - STEM Education
 - Ann Wright-Mockler
 - Peggy Willcuts
 - Kathy Feaster Alley†
 - LaVonne Boler
 - Scientists & Engineers
 - Eric Bell, National Security Directorate
 - Frances Smith, Energy & Environment Directorate
 - Elizabeth Stephens, Energy & Environment Directorate
 - Communications
 - Judy Thomas
 - Human Resources
 - Evangelina Shreeve

- K-12 Education
 - Teachers
 - Emily Blankingship, Delta High School
 - Lorianne Donovan, Finley School District
 - Kelly Lindsley, Richland School District
 - Julie Sijgers, Christ the King School (Private)
 - Melanie Bachart, Pasco School District
 - Joel Francik, Pasco/Richland School Districts
 - Administrators
 - Deidre Holmberg, Pasco School District
 - Jenny Rodriguez, Delta High School
 - Ian Yale, Columbia School District
 - Bryan Meredith, Pasco School District
 - Kathy Fisk, Kennewick School District
 - Allen Hovland, Pasco School District
 - Regional Organizations
 - Georgia Boatman, Educational Service District #123

DESIGN TEAM

- Higher Education
 - Community College
 - Clayton Gibson, Columbia Basin College
 - Gabriela Whitemarsh, Columbia Basin College
 - Regional University
 - Neiri Carrasco, Washington State University Tri-Cities

- Community
 - Foundation
 - Karen Baker, Washington State STEM Education Foundation
 - Suzy Merz, Washington State STEM Education Foundation
 - Business/Industry/Research Organization
 - Dale Ingram, Laser Interferometer Gravitational Observatory (LIGO)
 - Amy Carrasco, Kadlec Regional Medical Center



1st Row (L-R). Kelly Lindsley, Diedre Holmberg, Georgia Boatman, Frances Smith, Julie Sijgers, Kathy Fisk, Kathy Feaster Alley, Lorianne Donovan. Neiri Carrasco, Melanie Bachart
Back Row (L-R). Ian Yale, Clayton Gibson, Allen Hovland, Eric Bell, Bryan Meredith, Peggy Willcuts, Gabriela Whitemarsh, Elizabeth Stephens, Jenny Rodriguez, Suzy Merz, Jeff Estes, Ann Wright-Mockler, Emily Blankingship, Judy Thomas, Joel Francik



Collaboratory Council

- Jeff Estes, Pacific Northwest National Laboratory (PNNL)
- Kathy Fisk, LASER/Kennewick School District (KSD)
- Jenny Rodriquez, Delta High School (DHS)
- Luis Alcazar, MESA/Washington State University Tri-Cities (WSU TC)
- Dale Ingram, Laser Interferometer Gravitational Observatory (LIGO)
- Gabriela Whitemarsh, Columbia Basin College (CBC)
- Georgia Boatman, Educational Service District #123 (ESD 123)

Research & Evaluation Work Group

Design a theory of action, a logic model and an evaluation plan that result in tools, methods and findings that can be reported in journals, news articles and periodicals.

– Peggy Willcuts, PNNL (Lead)

Primetime Tools Work Group

Disseminate and/or develop tools, resources, practices and strategies for the education marketplace, testing them and deploying them in the three focus areas of student success, educator effectiveness and community engagement.

– Jeff Estes, PNNL (Lead)

Develop and conduct communications efforts designed to build awareness and engagement of student, educator and community stakeholders with the Collaboratory's vision, mission, objective, priorities, goals and projects.

– Judy Thomas, PNNL (Lead)

Communications & Outreach Work Group

Operations

Day-to-Day Operations Team

- Jeff Estes, Project Manager, PNNL
- Ann Wright-Mockler, PNNL
- Peggy Willcuts, PNNL
- Judy Thomas, PNNL
- Annette Schutzenhofer, PNNL
- Eric Bell, PNNL
- Frances Smith, PNNL
- Elizabeth Stephens, PNNL



Annette
Schutzenhofer

Eric
Bell

Frances
Smith

Judy
Thomas

Ann
Wright-
Mockler

Peggy
Willcuts

Elizabeth
Stephens

Jeff
Estes

Initial Projects

The Mid-Columbia STEM Education Collaboratory seeks to develop local, sustainable solutions that help address the larger national challenge of improving science, technology, engineering and mathematics (STEM) education. We will develop, test and deploy tools, technologies and resources that support student success, educator effectiveness and community engagement.

We will enable students, educators, STEM professionals, and the community to connect, communicate, and collaborate in order to strengthen our local (Mid-Columbia) educational ecosystem.

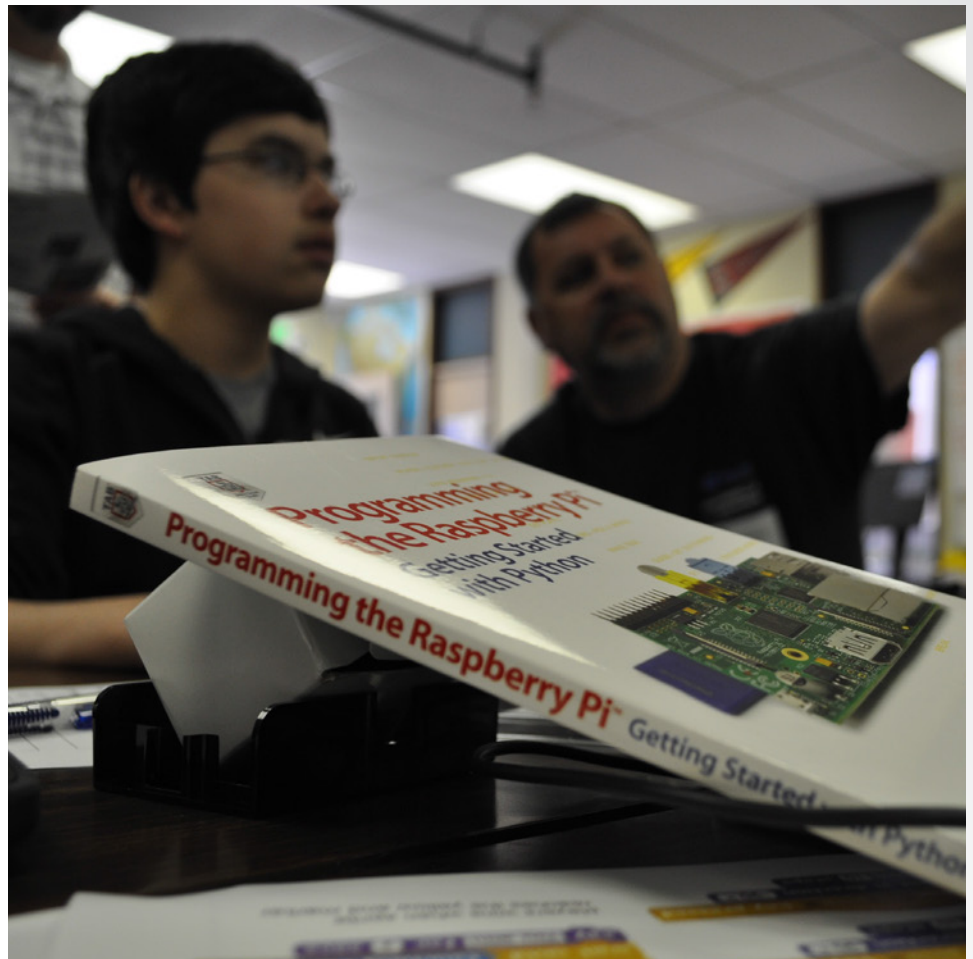


Initial Projects

Goal – Deepen understanding of digital fluency and inspire conversation about computer science education in our community through targeted activities and events.

– Ann Wright-Mockler,
PNNL (Project Lead)

Computing the Future



Initial Projects

STEM Flicks

Goal – STEM Flicks is a video series used by classroom teachers to bring examples of broad and varied STEM teams who work collaboratively to find creative solutions to today's

tough scientific challenges.

– *Peggy Willcuts, PNNL
(Project Lead)*



Goal – Generate excitement and support for STEM education through shared, authentic STEM experiences for students, educators, families and community partners.

– Frances Smith, PNNL (Project Lead)



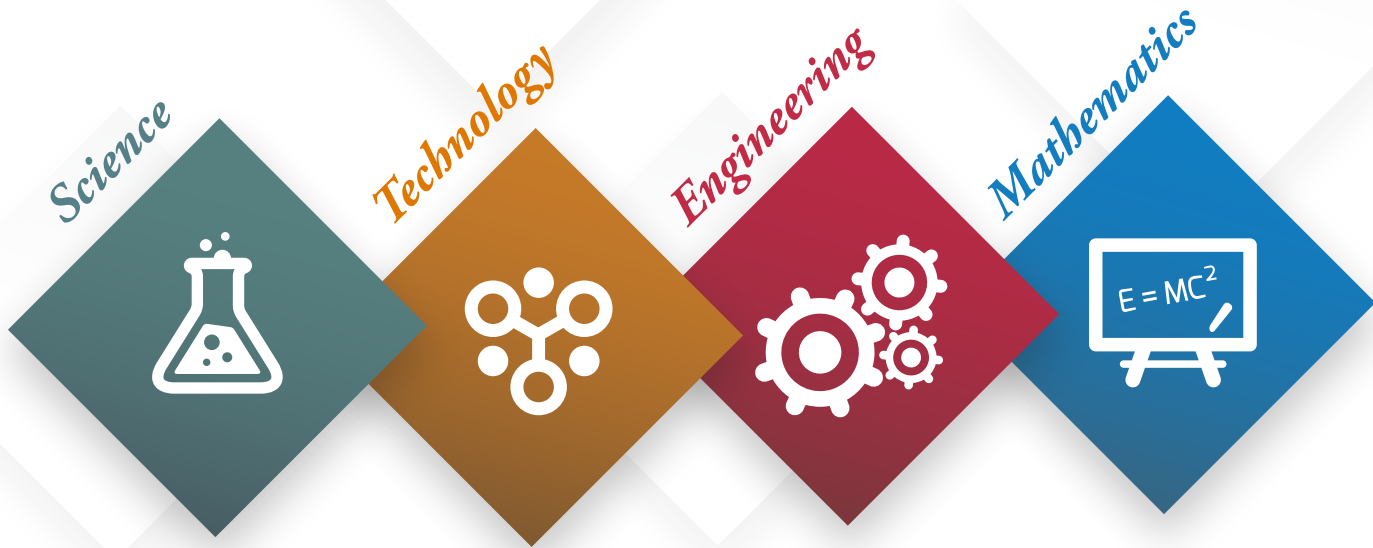
*Experiencing the
STEM Spectrum*

Introduction

What is STEM?

Fluency in STEM subjects – science, technology, engineering and mathematics – and their practical application helps students understand the world around them and solve problems through critical thinking, discovery and innovation.

Definitions vary, but we use the definition from *STEM Lesson Essentials* by Vasquez et al (2013). By their definition, “STEM education is an interdisciplinary approach to learning which removes the traditional barriers separating the four disciplines of science, technology, engineering and mathematics, and integrates them into real world, rigorous and relevant learning experiences for students.”



Why STEM?

STEM is increasingly important for students who:

- aspire to advanced studies and careers in STEM fields,
- wish to be a part of a workforce that increasingly must be STEM, capable and/or
- want to maximize their abilities to make informed personal and societal decisions.

STEM capabilities as articulated in the Next Generation Science Standards, the Common Core State Standards for English Language Arts and Mathematics, and the Career and Technical Education (CTE) Technical Core include a 21st century skills education framework that emphasizes the development of learning and innovation skills; information, media and technology skills; core subjects and 21st century themes like global awareness; financial, economic, business and entrepreneurial literacy; and civic literacy, health literacy and environmental literacy.


Introduction

Why Collaborate?

The Mid-Columbia STEM Education Collaboratory


is a public-private collaboration between Battelle, the Pacific Northwest National Laboratory, the Delta High School Partnership, the Southeast Washington Leadership and Assistance for Science Education and Reform (LASER) Alliance and the Yakima Valley/Tri-Cities Mathematics, Engineering and Science Achievement (MESA) Center.

The objective of this project is to design, implement and mature a local STEM education collaboration zone that impacts the educational ecosystem and serves as a model for amplifying and accelerating progress in addressing our STEM education and workforce challenges. The project seeks to realize greater student success, enhance educator effectiveness and mobilize our community's support for STEM through a connect-the-dots effort that will not only amplify and accelerate existing Delta, LASER, MESA and PNNL



education outcomes, but will realize changes in the STEM education system that the four collaborators cannot accomplish individually. The Mid-Columbia STEM Education Collaboratory seeks to make a difference for students, educators and community members through our collective impact.

We've adapted the “collaboratory” concept, as described in science research literature, with the idea of creating additional opportunities for STEM education improvements. We define the “collaboratory” as a zone or network focused on collaboration. We are attracted to the word “collaboratory” because we feel it combines two very important ideas: collaborate + laboratory. For us collaborate means “to work together” and laboratory means “to have a place (real or virtual) where we can test, analyze and demonstrate our theory of action, techniques and methods.”



About Us

Our Priority Goals and Strategies

- **Enable High Standards** - Our strategy is to support implementation of the career and college ready agenda, including the Common Core State Standards and the Next Generation Science Standards.
- **Support Excellence** - Our strategy is to build, scale and sustain exceptional STEM programs that reach all learners.
- **Spread Innovation** - Our strategy is to create and share educational tools that serve students, educators and the community.
- **Meet Future Workforce Needs** - Our strategy is to bridge the gap between STEM education and the ever-changing technological skills needed by employers.

Our Objective

Identify needs, facilitate connections and leverage assets throughout the community.

Our Vision

Our students are inspired and prepared for tomorrow's challenges through transformative experiences and authentic connections with the community.

Our Mission

Amplify, accelerate and inform innovative and sustainable improvements in STEM education.

Our Beliefs

We believe

- Innovative STEM education approaches can be created, implemented, tested and studied within our local classrooms, schools and community programs.
- That this local project can develop innovative ideas that can be shared with regional, state and national networks to which Battelle/PNNL, Delta, LASER and MESA are connected.
- This project requires collaborators who commit to aligning their work to current research and best practices in STEM education.
- In the power of the collaboration between Battelle/PNNL, Delta, LASER and MESA to help address our STEM education and workforce challenges.
- In the Collaboratory concept, an idea for creating additional opportunities for STEM education improvements that are supported by a distributed knowledge network or zone focused on collaboration.

Our Focus

Realizing greater student success and enhancing educator effectiveness by mobilizing PNNL and other community resources to support STEM education.

Our Values

We value

- The two important ideas contained in the word collaboratory: collaborate and laboratory.
- Collaborations which inspire students, lead to innovation and have impact.
- Tools that can enhance the effectiveness of collaborators as they work on STEM education projects, evaluate the progress, impacts and outcomes of the Collaboratory, and brand and disseminate our work to build the reputation of the Collaboratory and its Founding Members

Our Needs

The Mid-Columbia seeks to enhance STEM education opportunities for all students. There is a need for a more coherent and connected approach to providing STEM learning opportunities in school and out-of-school settings.



There is a need to engage our community more fully in the STEM education of Mid-Columbia students in order to increase...

Student learning and achievement.

STEM literacy among students, educators and community members within our region.

Student participation in STEM-related courses/degrees and extracurricular activities.

The number of students who are prepared for and pursue STEM-related careers.

Local Assets

Delta High School

Delta High School is a small public high school for students living in the Kennewick, Pasco, and Richland school districts. At Delta a broad spectrum of students are immersed in STEM learning experiences. Students experience learning that is based on research on how people learn and that parallels how STEM professionals conduct inquiries, solve problems and expand knowledge. Learning is supported through partnerships that connect academic learning to the world beyond the classroom. Delta prepares students to succeed in post-secondary education, careers, and citizenship. The elements of STEM are woven into every subject at Delta High School reflecting their importance into today's world.

Visit <http://www.thedeltahighschool.com>



Local Assets

LASER

The Southeast Washington Leadership and Assistance for Science Education Reform (LASER) Alliance is part of the statewide LASER network. Washington State LASER is affiliated with the national LASER initiative led by the Smithsonian Institution. LASER's vision is to make science an essential part of the education of today's students for tomorrow's world. LASER seeks to catalyze sustainable innovation and improvement in K-12 science education by 1) fostering a shared vision of effective teaching and learning, 2) stewarding a public/private network of committed individuals and organizations, 3) delivering leadership development programs and experiences, 4) partnering with regional support networks, and 5) aligning work with the National Research Council K-12 Framework for Science Education and the Next Generation Science Standards, which were adopted by Washington State in Oct. 2013.

Visit <http://www.wastatelaser.org>



Local Assets

MESA

The Yakima Valley/Tri-Cities MESA Center is one of six regional centers serving students in Washington State. MESA is designed to increase the number of underrepresented students in the mathematics, engineering and science-related professions. Directed toward middle school, high school and community college students, MESA builds a pathway to college and careers in STEM. MESA develops programs and initiatives to improve diversity and retention with an emphasis on students traditionally underrepresented in STEM fields, including African Americans, Native Americans, Hispanic/Latinos, Pacific Islanders and women. Students participate in educational enrichment experiences and receive the practical help they need to prepare for university-level studies in a variety of STEM fields.

<http://www.tricity.wsu.edu/mesa/>



Local Assets

Pacific Northwest National Laboratory (PNNL)

PNNL, operated by Battelle for the U.S. Department of Energy, has a vested interest in STEM education and sustaining a diversified workforce. PNNL's mission is to transform the world through courageous discovery and innovation, and it relies upon talented individuals to support its mission, now and in the future. PNNL wants to increase the number of individuals who pursue advanced degrees and careers in STEM, increase STEM literacy and grow a STEM-capable American workforce. Education initiatives at PNNL plant the seeds of wonder, inquiry, problem solving and critical thinking; cultivate rich learning environments that catalyze improvements in STEM education; and harvest the next generation of scientist and engineers through intern and fellowship programs. Collectively this work seeks to enrich STEM education, enhance STEM teachers' knowledge and skills, and prepare the next generation of scientists, engineers and innovators.

Visit <http://science-ed.pnnl.gov>



Local Assets

Affiliated Organizations

Organizations affiliated with Delta, LASER, MESA and PNNL (see list on page 3) contributed significantly to the design of the Mid-Columbia STEM Education Collaboratory. They also represent significant community assets as the Collaboratory moves through the phases that will lead to its long term sustainability (i.e., launch, implementation and maturation). As the Collaboratory matures, these organizations will have the opportunity to formalize their engagement through a New Member Letter of Agreement (NM-LOA), which will describe their assistance, engagement and support with respect to the Mid-Columbia STEM Education Collaboratory (i.e., their commitments) as they move from an “affiliated” to “formal” collaborator designation.



Our Opportunity

In addition to the initial assets identified, our region is also fortunate to have a variety of other organizations and initiatives focused on addressing the issue of increasing opportunity through STEM education and employment. Our community's challenge—and its opportunity—is to better knit these disparate efforts “together,” so they are more focused and coordinated. The Collaboratory is predicated on the belief that we are a stronger, more prosperous community when we work together in a more cohesive way.



Common Core
State Standards for
English Language
Arts and Math

Next Generation
Science Standards

Career and
Technical Education
Standards

Career and College
Ready Standards

STEM-related
efforts and
initiatives
state/regional/local

School District
STEM
Initiatives/Projects

Higher Education
STEM
Initiatives/Projects

Community/
Business-led STEM
Competitions,
Events and
Outreach Efforts

Professional
Society-led
Programs and
Outreach Efforts

Our Plan For Working Together

Roles

*The functions that
individuals play in the
Collaboratory*

Director

- Acts as the face of the Collaboratory.
- Oversees project leaders.
- Oversees, with Collaboratory Council, the functioning of the Collaboratory.
- Facilitates Collaboratory Council meetings and decision making.
- Ensures Collaboratory member voices are heard.

Project Leaders

- Provide leadership for an individual project.
- Direct work and conduct oversight of the project within the established scope.
- Steward the expected delivery of products and/or services related to the project.

Collaboratory Council Members

- Act as governing body of the Collaboratory making decisions that impact operations.
- Serve as active liaisons with entities/stakeholders they represent.
- Represent the “voice” of the Founding Members; and
- Contribute to the continual progress of the STEM Collaboratory.

Responsibilities
*The obligation to ensure
initiation, implementation
and/or completion of an activity
for the Collaboratory*

Project Leaders

- Meet project goals/deliverables on time and within budget, including effective and efficient execution of the projects.
- Build appropriate teams to complete work.
- Evaluate the project using Collaboratory tools.
- Communicate progress/challenges to the Collaboratory Council.

Director

- Directs overall Collaboratory work.
- Works with the Collaboratory Council to achieve the vision, mission, objective and high level goals/strategies of the Collaboratory.
- Plans and conducts Collaboratory Council meetings.
- Leads execution of Collaboratory Council decisions.
- Oversees fiscal activities.
- Coordinates Collaboratory operations.
- Communicates with the Collaboratory Council and other stakeholders.

**Collaboratory
Council Members**

- Attend monthly Council meetings and actively participate in the Council's work.
- Advocate for and disseminate information about the work of the Collaboratory to their constituencies.
- Approve, monitor, advise and evaluate Collaboratory-sponsored projects and operations.
- Adhere to the "Vision, Mission, Objective, Focus, Attributes and Goals/Strategies" set forth by the Founding Members of the Collaboratory.

Governance Structure

Currently PNNL STEM education staff, individual Delta, LASER, and MESA members, and an external contractor lead the operations of the Mid-Columbia STEM Education Collaboratory, as well as the first set of projects it has launched.

A Collaboratory Council has been established as the governing body of the Collaboratory. Its high level responsibilities include 1) contributing to the continuous improvement and progress of the Collaboratory, 2) ensuring alignment and fidelity of efforts to the mission, vision, objective and goals of the Collaboratory; 3) making assessments leading to decisions and commitments that will advance the work of the Collaboratory, and 4) communicating and building relationships with stakeholders and supporters in order to advance and amplify the Collaboratory's work.

The Collaboratory Council is currently composed of seven members. Four memberships are permanent and include the Delta High School Partnership (School Principal), Yakima Valley/Tri-Cities MESA (Center Director), Southeast Washington LASER Alliance (Alliance Director) and Pacific Northwest National Laboratory (Director, Office of STEM Education). There are three at-large positions on the Collaboratory Council. There is one position each for P-12, Higher Education and Community representatives. Once appointed, each appointee serves a term of three years with one re-appointment allowed for a total of up to six years of continuous service. Following a one-year hiatus, a Council member may be reappointed. As part of the launch of the Collaboratory, the first round of appointments are staggered according to the schedule on page 38.

Appointments by Calendar Year

Type	2014	2015	2016	2017	2018	2019	2020
P-12				New ✓			New ✓
Higher Ed.			New ✓			New ✓	
Community		New ✓			New ✓		

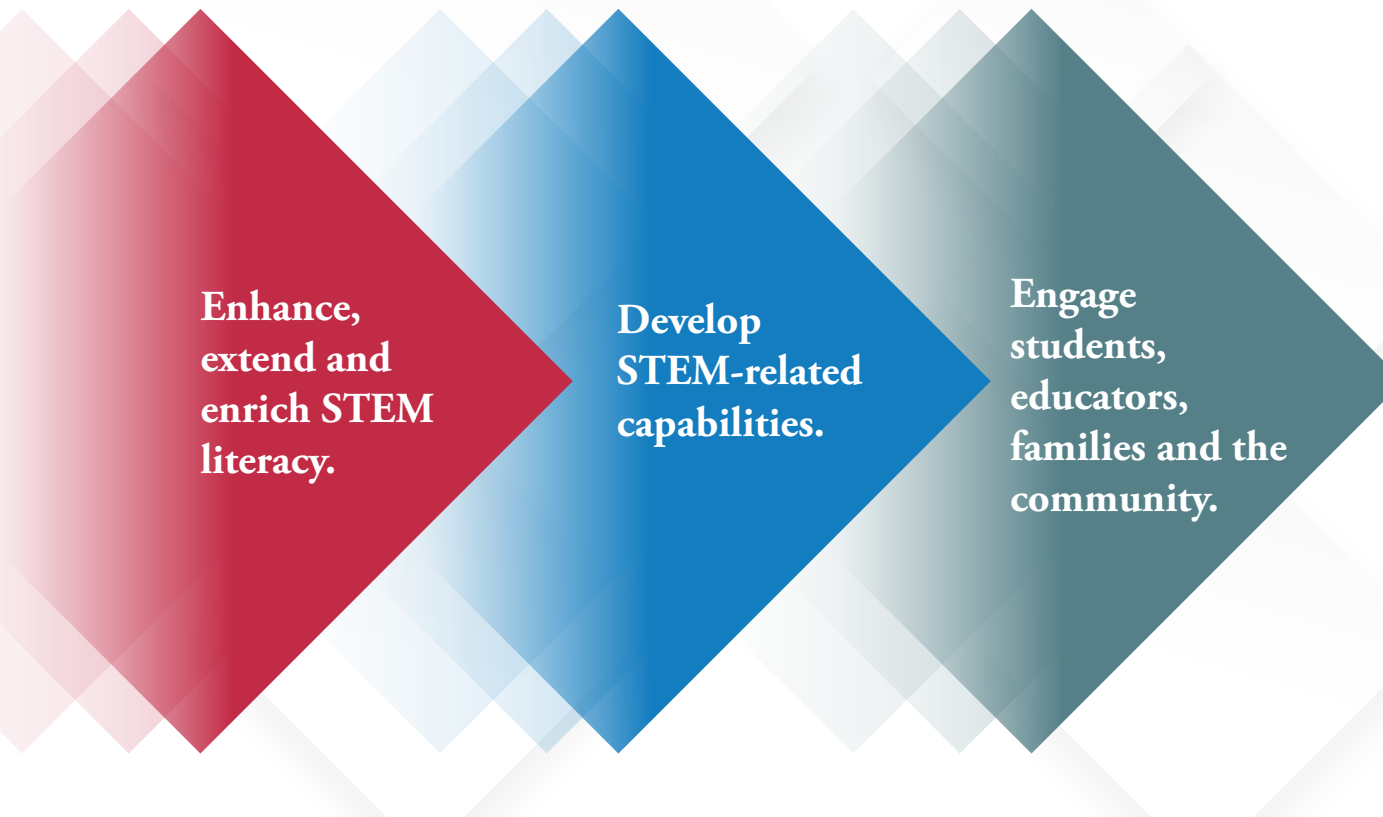
An individual may serve not more than two consecutive terms.

■ Advisors

- The Collaboratory Council will convene advisory groups, as needed, that represent the stakeholders that are the focus of the Collaboratory's work. The intent would be to gather advice and counsel from P-12, higher education and the community. These advisors may include, but are not be limited to, individuals who served on the Collaboratory's original design team. These advisors may have relationships with educators and community members, and may include senior leaders from the Founding Member organizations as well as organizations not directly affiliated with Delta, LASER and MESA.
- Given the Collaboratory's vision that "our students are inspired and prepared for tomorrow's challenges through transformative STEM experiences and authentic connections with the community," we would be remiss not to seek the opinions, insights and wisdom of these students. Thus, the Collaboratory Council will convene student advisors, as needed, who can help inform the success of the Collaboratory's efforts.

Our Logic Model: From Design to Sustainability

The Mid-Columbia STEM Education Collaboratory seeks to improve STEM education, increase STEM workforce preparation for all, and actively engage the Mid-Columbia community in its projects.







**Enhance,
extend and
enrich STEM
literacy.**

**Develop
STEM-related
capabilities.**

**Engage
students,
educators,
families and the
community.**

Logic Model

Founding Members Capabilities			
 <p>Pacific Northwest NATIONAL LABORATORY</p> <p>Organizational, educational and leadership expertise; seed funding</p>	 <p>Delta High School</p> <p>STEM professional development and curriculum design expertise</p>	 <p>WASHINGTON STATE LASER Leadership & Assistance for Science Education Reform</p> <p>K-12 science professional development and STEM education leadership development</p>	 <p>MESA Mathematics Engineering Science Achievement</p> <p>Expertise with students and their families historically underrepresented in STEM, in STEM education, higher education matriculation, and pursuit of STEM careers</p>
Activities ▶	Outputs ▶	Outcomes ▶	Impacts
Link local STEM education efforts and build on them.	Delta, LASER, MESA & PNNL personnel meet regularly to identify and advance common goals.	<p>Common goals are agreed on.</p> <p>More efficient and effective use of resources to engage more students, educators and community members in STEM education programs.</p> <p>Collaborator groups are more well-known and respected in the local community.</p>	<p>More students, educators and community members, from more diverse groups, will participate in STEM education efforts.</p> <p>Local educators and community members will be more aware of effective strategies for collaborating to improve teaching and learning in STEM education.</p>
Design, plan, recruit, and launch Mid-Columbia STEM Education Collaboratory.	Mid-Columbia STEM Education Collaboratory is formed, functioning and provided with funds.	Multiple new STEM educational and/or community programs are operating.	<p>More local students, educators and community members will participate in the new or improved STEM education programs.</p> <p>New understandings about collaborative efforts in STEM education will be disseminated.</p>
Implement, test and study a variety of STEM education approaches in local schools and community programs.	New or improved STEM education programs will be available in local schools and community groups.	<p>Local educators and community leaders are more aware of best practices for teaching and learning STEM in schools and the community.</p> <p>Educators are using more effective strategies in STEM education.</p> <p>Local students, educators and community members are experiencing higher quality education programs in STEM.</p>	<p>Local students, educators and community members will have greater knowledge in STEM and be able to apply that knowledge to inform personal and community decisions.</p> <p>More students will decide to pursue post-secondary education in STEM fields and/or enter STEM careers.</p> <p>More students, educators and community members will actively engage in STEM education efforts in their communities.</p>

Phases

Phase #1: Designing the Mid-Columbia STEM Education Collaboratory (2013)

- Design team formed.
- Ten design team meetings held.
- Design assignments completed.
- Baseline data/knowledge from Founding Members captured, shared and used to inform design and plan for Collaboratory.
- Mission, vision, objective, high-level goals/strategies and focus areas established.
- Principles for governance, project proposal/selection, operational structure/strategy and research/evaluation established.
- “Soft launch” event held.
- Resources for phase #2 committed.

- Letter of Agreement (LOA) signed by Founding Members.
- The value of in-kind contributions of Founding Members (labor and non-labor costs) for the design year is estimated to be ~\$225K.



Phases

Phase #2: Launching the Mid-Columbia STEM Education Collaboratory: Experimenting with Collaboration (2014)

- Business plan developed and put into operation.
- Communications plan developed and launched (includes marketing, website, etc.)
- Research and evaluation plan developed, vetted, implemented and used for improvement.
- Four Operations work groups begin to function and encourage collaboration among Delta, LASER, MESA and PNNL stakeholders.
- Three pilot projects are launched and allow for collaboration among Delta, LASER, MESA and PNNL stakeholders.
- Progress reports are delivered and used to monitor, adjust and improve Collaboratory outcomes. Semi-annual reviews of the implementation efforts are conducted by the external evaluator.

- 75K in grants from Battelle provides seed money to launch pilot projects.
- Founding Members (i.e., PNNL, Delta, LASER and MESA) provide in-kind support (labor and non-labor) valued at ~\$400K.



Phases

Phase #3: Implementing, Maturing and Sustaining the Mid-Columbia STEM Education Collaboratory: Growing the Collaboratory's Footprint (2015-18)

- Founding Members anticipate providing a sustained level of in-kind support (labor and non-labor) valued at ~\$400-\$500K annually.
- Founding Members will renew their non-binding Letter of Agreement (LOA), which is signed annually. The letter puts forth the understanding of mutual support and assistance that the four entities will provide with respect to the Mid-Columbia STEM Education Collaboratory (i.e., their commitments).
- A New Member LOA will be developed describing an understanding of support and assistance the new member would provide with respect to the Mid-Columbia STEM Education Collaboratory

(i.e., their commitments) should an organization (beyond the Founding Members) seek to formalize their participation.

- Battelle's Pacific Northwest Division Corporate Contributions Committee will entertain Collaboratory proposals to provide seed money to launch new pilot projects and/or to expand successful pilot projects from previous years. These grants would be contingent on the proposals being cross-organizational efforts of Delta, LASER and MESA.
- A local community organization interested in STEM education, will be selected to act as the fiscal agent of the Mid-Columbia STEM Education Collaboratory. A representative of this foundation would be invited to join the Collaboratory Council.

Phases

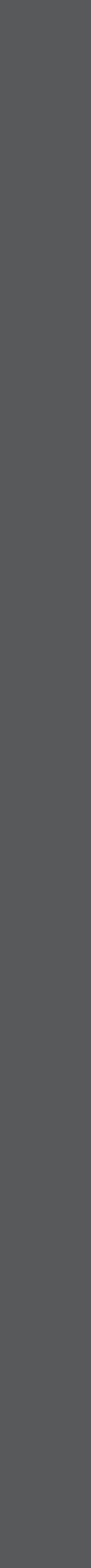
- On an annual basis, through a strategic planning process, the Collaboratory Council will determine whether to divest, sustain or invest in projects designed to improve STEM education, increase STEM workforce preparation and/or engage the Mid-Columbia community in STEM. These decisions will be driven by the Collaboratory's priorities and its areas of focus. (i.e., to realize greater student success, enhance educator effectiveness and mobilize PNNL and other community resources to support STEM education).
- As a part of this annual process, the Collaboratory will consider new or existing STEM projects. This process to solicit, select and fund Collaboratory projects will be consistent with the approach developed in the 2013-2014 school year.

- The Collaboratory Council, working with its outside evaluator and with experts in proposal development, will develop a process by which pilot projects can be vetted to determine their potential for successfully attracting additional funding from agencies, businesses, foundations and other investors for the purpose of scale-up and sustainability of the project within the Mid-Columbia and beyond. Once identified, the Collaboratory Council will pursue an effort to develop competitive proposals to be submitted to the identified funding organizations.

Contact Information



www.midcolumbiastem.org
info@midcolumbia.org





PACIFIC NORTHWEST NATIONAL LABORATORY
operated by
BATTELLE
for the
UNITED STATES DEPARTMENT OF ENERGY
under Contract DE-AC05-76RL01830



This document was printed on recycled paper.

(9/2003)