

WASHINGTON
TECHNOLOGY
industry association



Michael Schutzler

CEO

Washington Technology Industry Association

We consolidate the power of member companies to solve business problems they cannot readily solve alone. Our guiding principle is to help Washington residents gain access to high-wage tech-industry jobs.



ICT
Companies
10,000

200,000
Employees



Including
Tech Units
280,000



100,000
SDE+

Economic
Multiplier

7X

800,000
Jobs created in
last 25 years



100,000
SDE+

90,000

Come from outside WA

Expand Local

- Finance CSE Expansion
- Adjust curricula
- Deploy CS in EVERY HS

Recruit Deeper

- Educate & motivate Government Leadership
- Aggregate Campus Presence

<15%

Female

<1%

Black or Hispanic

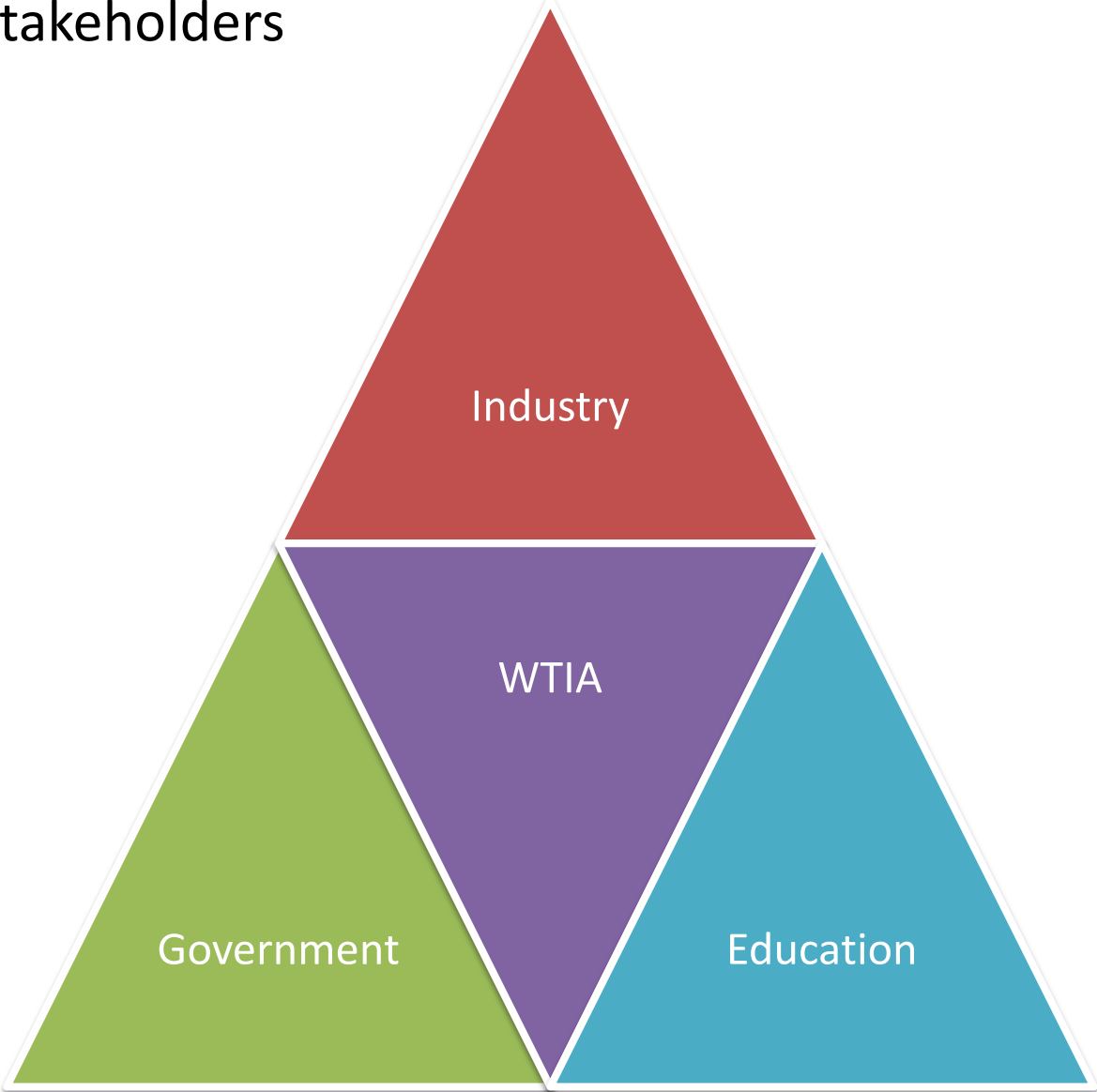
Develop Local

- K12 capacity & capability
- Recruit & deploy mentors
- Apprenticeship model as viable path to career

Retain

- Diversity focused onboarding
- Creating cultures that embrace diversity

Nexus of Stakeholders





501 C 6
Membership



APPRENTi

501 C 3
Workforce
Institute



WTIA



PREMERA | 
BLUE CROSS

501 C 9
Benefits
Trust

What are our priorities?

- **Recruit** hard-to-find talent for tech companies, with a special emphasis on women, people of color, and veterans
- **Run** the only nationally registered industry apprenticeship program (Apprenti™)
- **Provide** a turnkey HR benefits bundle for small and mid-sized tech companies
- **Provide** peer level introductions and facilitated professional networking among education, government and industry leaders
- **Ensure** that public policies are well informed and aligned with our guiding principle of providing access to high-wage, tech industry jobs for Washington residents

A nighttime photograph of the Seattle skyline, featuring the Space Needle prominently in the center. The city lights are visible against a dark blue sky.

FullConTech: Action starts here.

October 3, 2016

Microsoft Conference Center (Redmond)

8 AM- 5 PM

Register Today →

Un Conference

Draft Day

Job – Degree Taxonomy

National Brand Awareness

Challenge Seattle Apprenti Cascadia Conference

2016



7:30 Registration

8:00 Breakfast

8:30-9:15 Welcome, Review 2015 FullConTech Plays, and **Keynote**

9:15-10:00 Flash Talks

10:00 – 10:30 **Break**

10:30-11:25

Discover Session: Grow, Attract, Retain **Inside** Companies

- Preparing Employees for Different and More Challenging Jobs
- Building a Culture for Retaining Talent
- Attracting a Diverse Talent Force

11:25 – 11:35 **Break**

11:35-12:30

Discover Session: Grow, Attract, Retain in the **Community-at-large**

- Techtopia: How do we get tech innovators to start up and stay in Puget Sound?
- Building an Industry Pipeline
- Maintaining a Healthy Growth Environment

12:30-1:30 **Lunch**

1:30-2:45 Invent Sessions

2:45-3:00 **Break**

3:00-4:30 Invent Sessions (cont.)

4:30-5:00 Closing session

5:00 **Happy Hour**



The path, the plan, your career in tech.

WTIA WORKFORCE INSTITUTE

APPRENTICESHIP OVERVIEW: Apprenti

Jennifer Carlson
Executive Director
Washington Technology Industry Association Workforce Institute



Overview

- Introductions & Appreciation
- Apprenti Overview
- Partnership Model
- Training
- Process
- Timeline
- Q & A



APPRENTI

The path, the plan, your career in tech.

Team

- Jennifer Carlson, Executive Director
- Jordan Shepherd, Program Director
- Karen Manuel, Project Manager



Our Source

Funded by AAI Grant, Oct 2015 to build pilot program for registered apprenticeship in Technology Industry.

In the U.S., 1:20
job openings is
a tech job

Fewer than
1,000 4-year
college grads
to fill these jobs
annually

Of these, 4,000
are quasi
technical roles

Opportunity to stratify
occupations and
focus on middle skill
jobs that can be filled
by accelerated or
vocational training.



Washington is

The fastest growing by population in the country

Washington State has nearly 8,000 skilled tech job openings
Of these, 4,000 are in quasi technical roles

80,000 New Jobs over the next 20 years



Need for Apprenticeship in Technology

**How
apprenticeship
differs from
internship**

Enables tech
industry increase
diversity among
their workforce
while addressing
urgent workforce
needs.

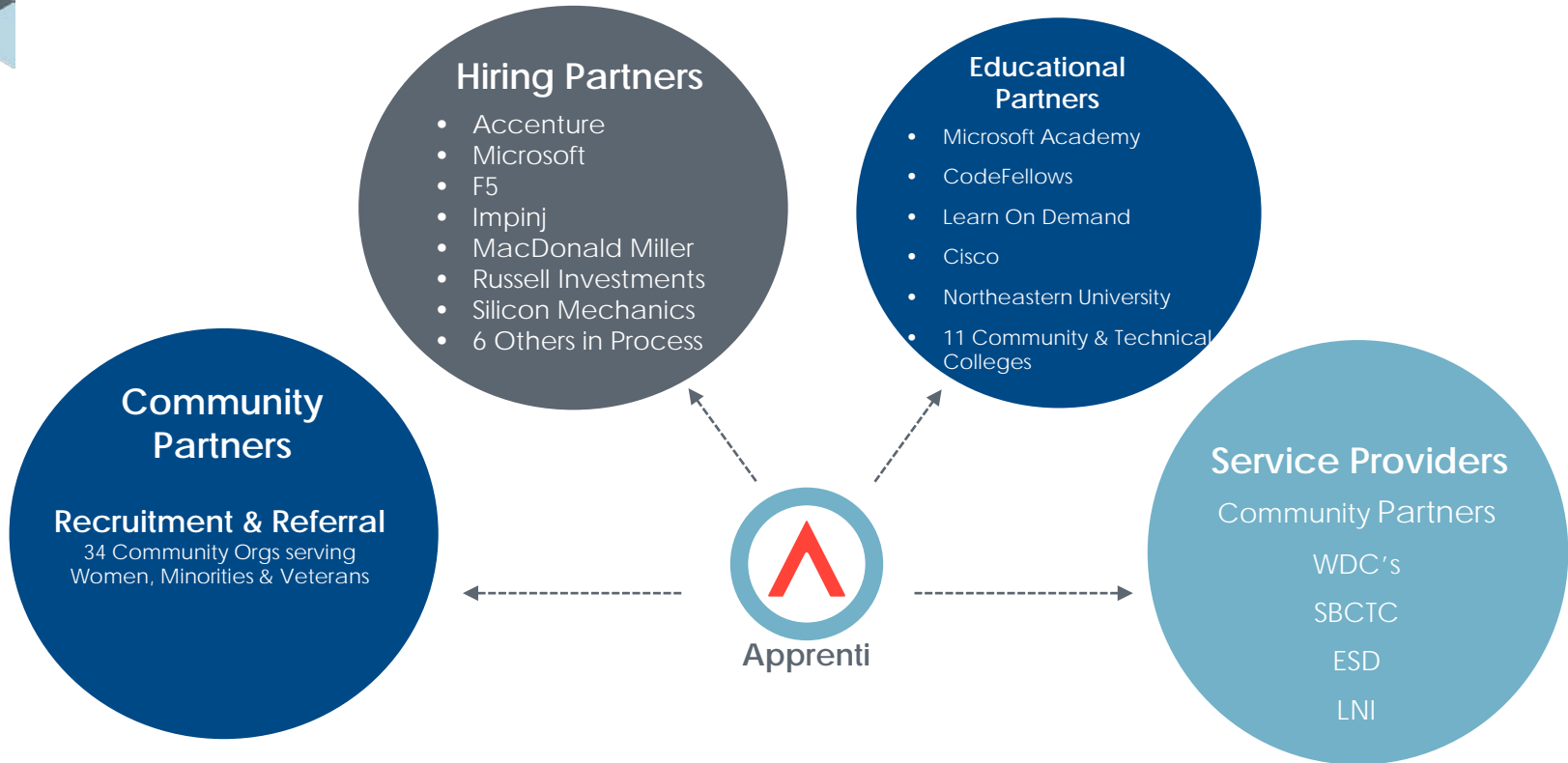
Training designed
to meet industry
requirements and
deliver recognized
certifications.

Attracts talent by

- Providing paid on-the-job training for one year.
- Offering benefits such as healthcare and retirement.
- Guided journey to prevent drop outs during learning curve.



Our Partnership Model





Occupational Training

Initial Occupations

- Database Administrator
- Network Security Administrator
- Project Management
- Software Applications Development
- Web Applications Development

Training

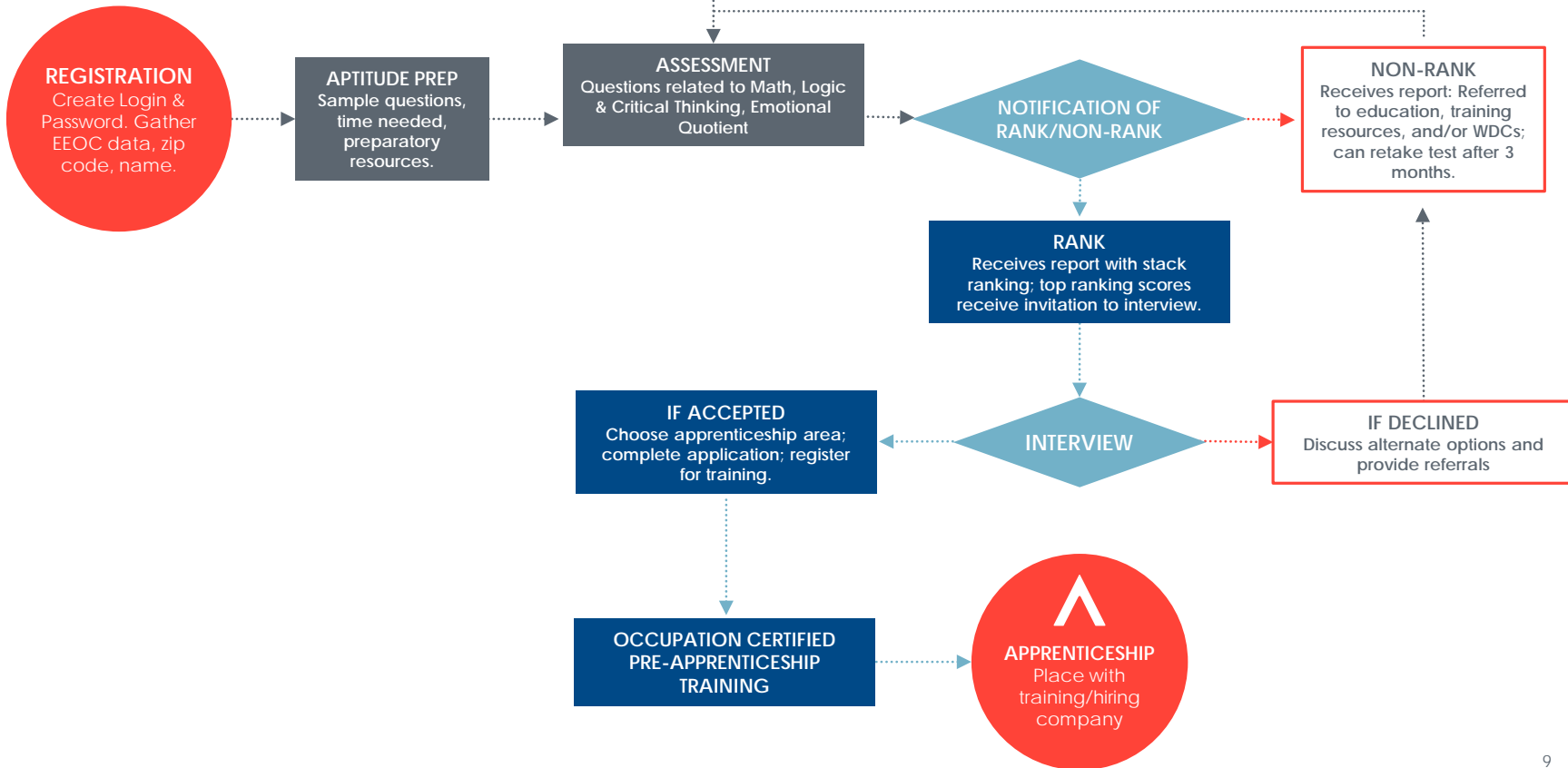
- Two to four months, full-time
- First cohort's technical training is sponsored by JP Morgan Chase
- Option for unemployment benefits

Future Occupations

- QA
- UI/UX
- Business Analyst
- Technical Product Support
- Computer Aided Design (CAD)
- And More!



How it Works – ApprentiCareers.org





Timeline

Outreach & Assessment

- Now! Quarterly cohorts beginning October 2016

Interviews

- Mid to End September – Select 20-25 Apprentices for Cohort 1
- November - Select 20-25 Apprentices for Cohort 2

Technical Training

- October to January -- Cohort 1
- January to March – Cohort 2

On-the Job Training

- January – Cohort 1 begins OJT at companies
- April – Cohort 2 begins OJT at companies



Q&A Session



The path, the plan, your career in tech.

Thank You

For more information, please contact
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Washington STEM's 2017-2019 Priorities and State Funding Request

Caroline King

Chief Policy Officer

Washington STEM

WASHINGTON STEM

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- ❑ **Statewide nonprofit; cradle to career; equity, innovation and opportunity**
- ❑ **Engaged Washington STEM Board and 10 Regional Networks to develop 10-year goals and 2017-19 priorities**
- ❑ **Commissioned Education First to recommend policy and investment priorities to advance basic education outcomes and equity through STEM**
- ❑ **Reviewed evidence base, national best practices and community needs across Washington**
- ❑ **Legislative priorities aligned to HB 1872**

FUTURE READY WASHINGTON



Young Washingtonians have the technical and critical skills needed to thrive in today's jobs and create and excel in the unknown jobs of tomorrow as well as exemplify opportunity and create shared prosperity for our communities.

Washington STEM and our regional Networks and partners aspire to a Future Ready Washington.

Together, here's what we plan to achieve by 2025. >>

Our work is organized in four priority initiatives:



Computer Science



Career Connected Learning



Early Math



Science & Engineering

We advance this work by building partnerships, leveraging policy, and expanding innovation.

In all our work we focus on:



Equity

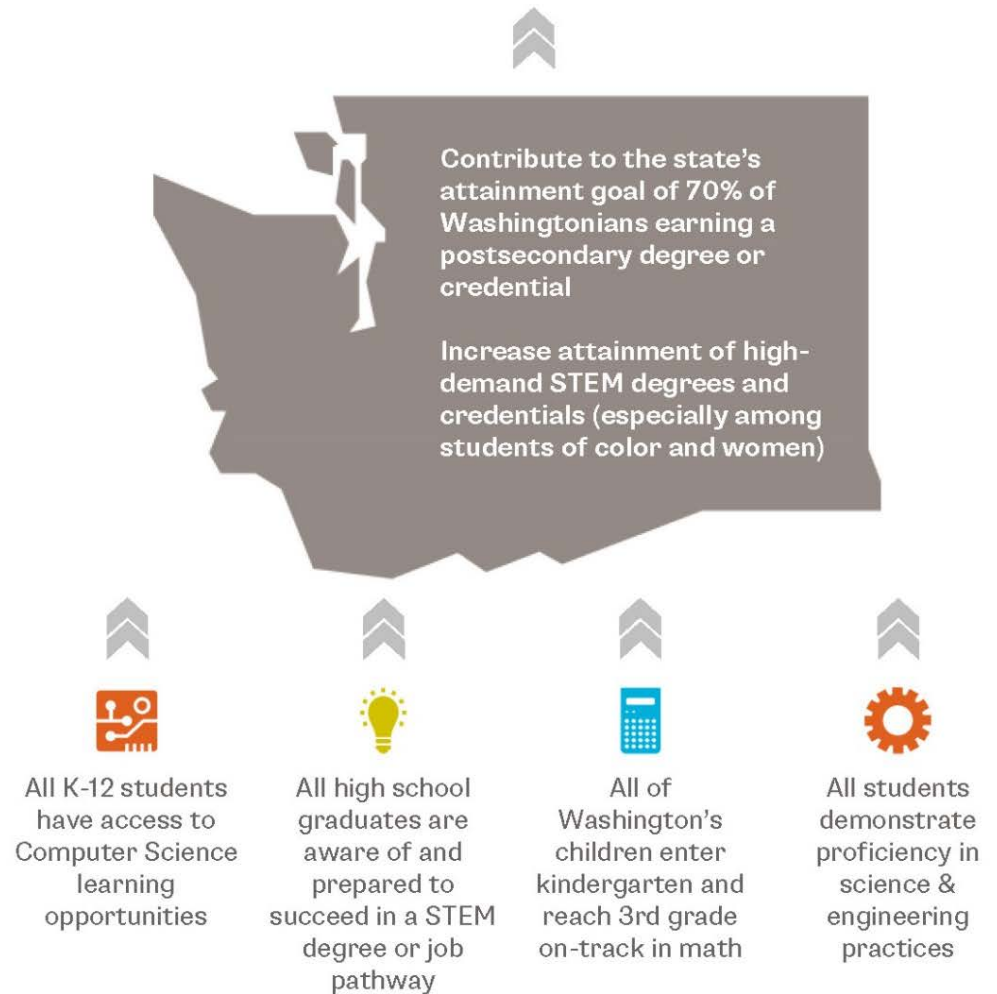
All students deserve the opportunities that come with being STEM ready. We focus our work and encourage networks to target gaps in gender, race, income, and geography.



Teaching Quality

Quality instruction can unlock so much student potential. We support professional development, standards implementation, resource dissemination in service of these objectives.

Increase STEM access, interest, and success for all students



2017-19 LEGISLATIVE AGENDA: CRADLE TO CAREER

Our Legislative Agenda focuses on building student opportunity and success through STEM from cradle to career, with a focus on underserved and underrepresented students.

EARLY LEARNING	K-12	HIGHER EDUCATION
<p>Support efforts to include STEM in early learning</p> <p>Focus: Early Math</p>	<p>Drive equity and career- and college-readiness in K-12 basic education through STEM</p> <ul style="list-style-type: none">• Focus: Computer Science, Career Connected Learning, Science & Engineering, Early Math• Focus: Improve and grow STEM capital grant program	<p>Expand incentives and supports for high-demand, technical, and 2- and 4-year degrees</p> <ul style="list-style-type: none">• WSOS scholarships• MESA Community College footprint• Apprenticeships and 4-year STEM degree opportunities

2017-19 K-12 LEGISLATIVE PRIORITIES

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- **Deep-dive set of K-12 state funding and policy recommendations**
 - Informed by best practices around the country
 - Informed and vetted by regional STEM Networks, statewide partners, and other key stakeholders

- **\$45M for 2017-19** (1:1 match; \$22.5M state, \$22.5M private).
 - Resource breakdown
 - Reach 50% of K-12 students
 - Build capacity, drive equity, and spur scale

- **Four priorities:** Computer Science, Career Connected Learning, Early Math, and Science & Engineering

- **Essential part of the McCleary solution:** Deliver on basic education goals, close opportunity gaps, and build diverse skilled workforce.

2017-19 K-12 LEGISLATIVE PRIORITIES

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PRIORITY #1



Ensure all students have access to computer science (CS) learning opportunities by 2025.

PRIORITY #3



Ensure that all PreK-3 students demonstrate grade-level competency in math by 2025.

PRIORITY #2



By 2025 all high school graduates have the communication, problem-solving, and collaboration skills necessary to thrive in work and life, supported by high-quality Career Connected Learning experiences at elementary, middle, and high school.

PRIORITY #4



All students engage in investigations aligned with newly adopted state standards to learn how science and engineering relate to natural systems, challenges, and key industries throughout the state.