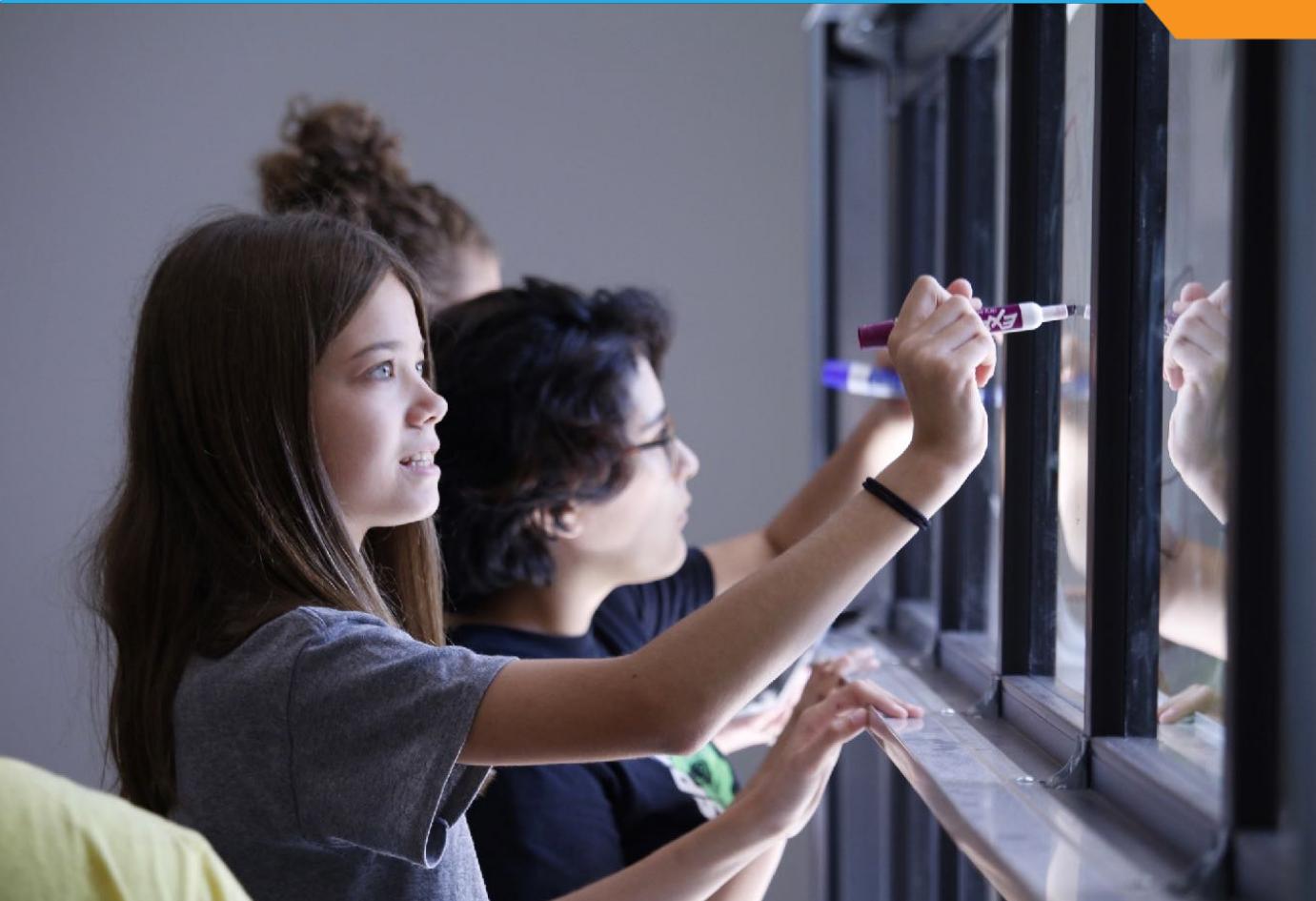


# Transforming Learning



## Middle and Early College Models

Alaska Joint Senate & House Education Hearing • November 13, 2018

Annalies Corbin, PhD  
*President & CEO*

THE PAST FOUNDATION  
[pastfoundation.org](http://pastfoundation.org)

# PAST Innovation Lab

## Why —

We are committed to creating equity and access for all youth in ways only they can envision

## How —

We build avenues of access and programs that empower students and teachers to be leaders and equip them with the tools and understanding to accomplish their dreams

## What —

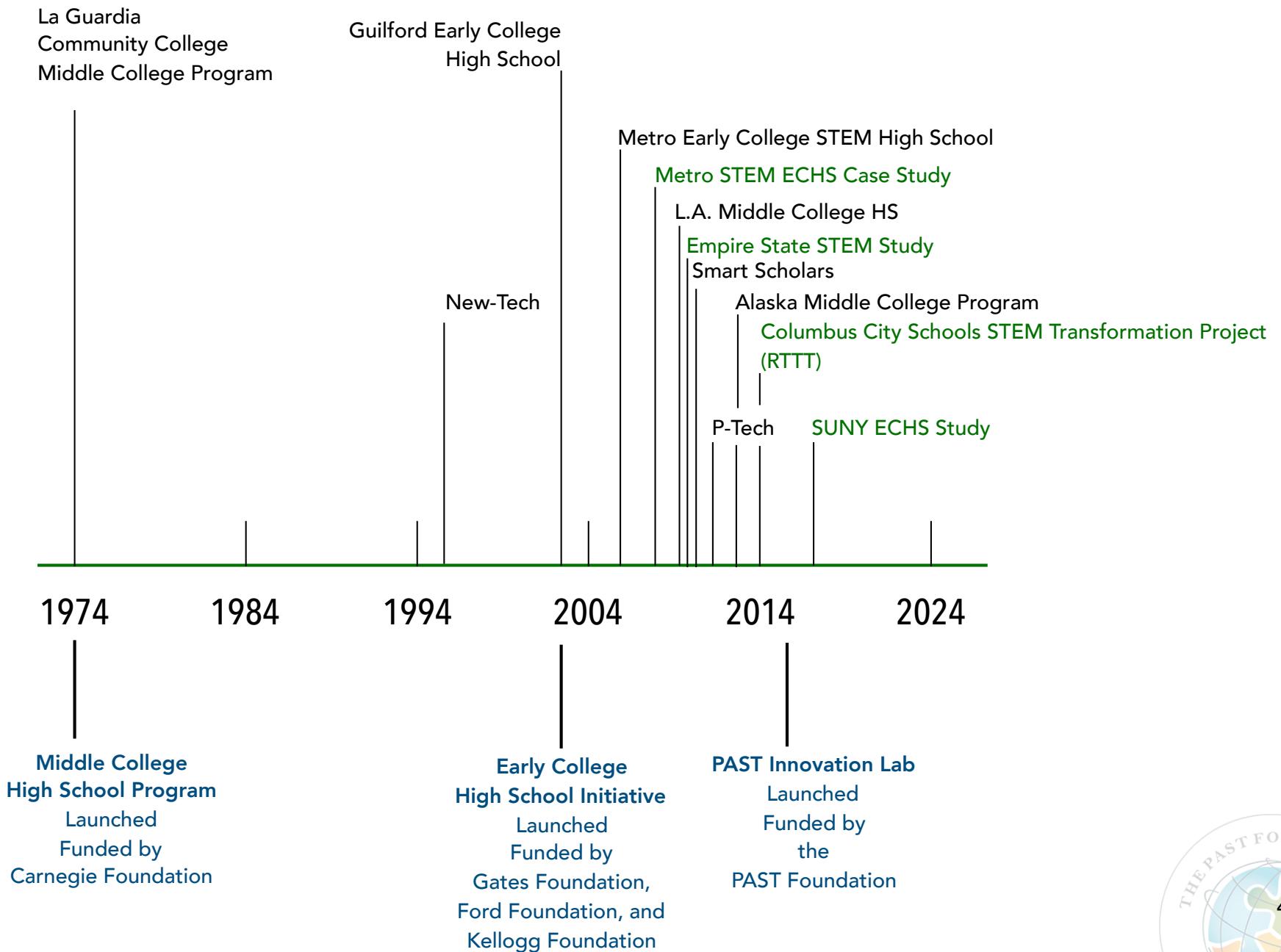
We power formal and informal STEM programs with engaging, hands-on learning that create Innovators, Critical Thinkers and Collaborators



# Access to Post Secondary - What Does it Really Mean?



# Development of Middle - Early College Programs



# Model: Middle College Schools

1974 Launch

- High Schools grade 11-13 and also enrolled part time in classes at a partner post secondary institution;
- Secondary schools, authorized to grant diplomas in their own name;
- Located on college campuses across the nation;
- Small student populations focusing on historically underserved and underrepresented in college;
- No cost college access working towards earning an Associates degree.

# Model: Early College Schools

2002 Launch

- Compressed high schools grades 9-12 with integrated high school and collegiate curricula;
- Located on or near college campuses across the nation;
- Small student populations focusing on historically underserved and underrepresented in college;
- No cost college access - dual enrollment
- Stepped increases in the percent of graduates earning college credits, earning more than one year's worth of college credits, and earning an Associate's degree or two years of college.



# Meshing of Ideology

Intensive Counseling

Courses – dual credit progresses to dual enrollment

Audience – At Risk Youth

Target Grades – 11-13

Community College partner

Near or Embedded on college campus

## Middle College

## Career Technical Education

## Early College

Location – anywhere

Any Post Secondary partner

Target Grades – 9-12

Audience – Top 20 - 30 percentile

Courses – dual enrollment

Workforce Internships

Vocational Tech

High Tech High

BOCES

New Tech

## Middle-Early College

Smart Scholars

Smart Scholars/P-Tech

Smart Transfer

High Tech High

STEM Summer Institutes

New Tech

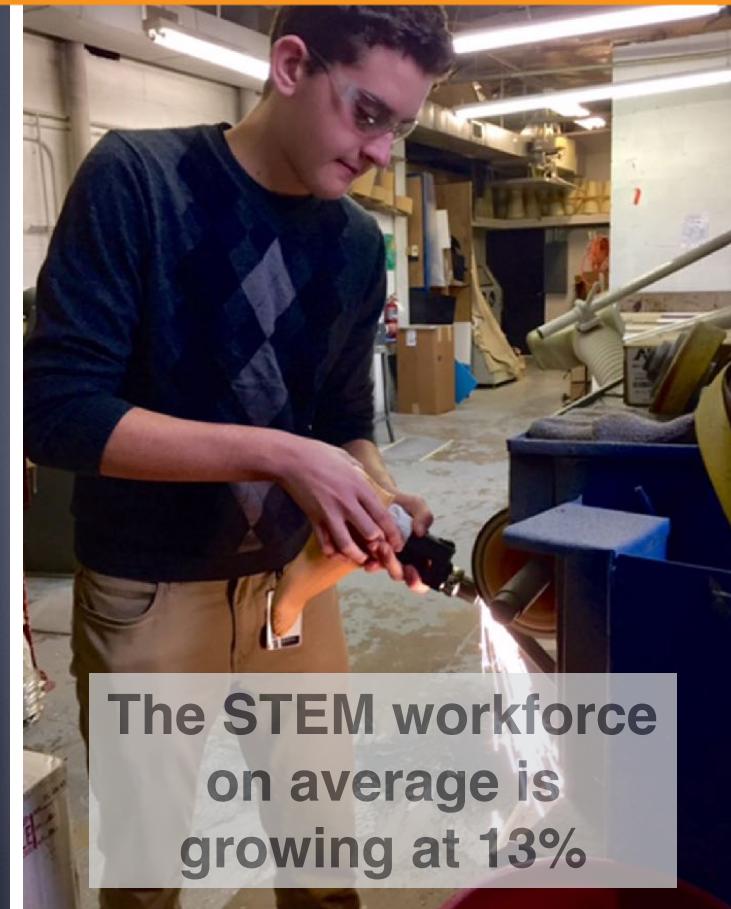
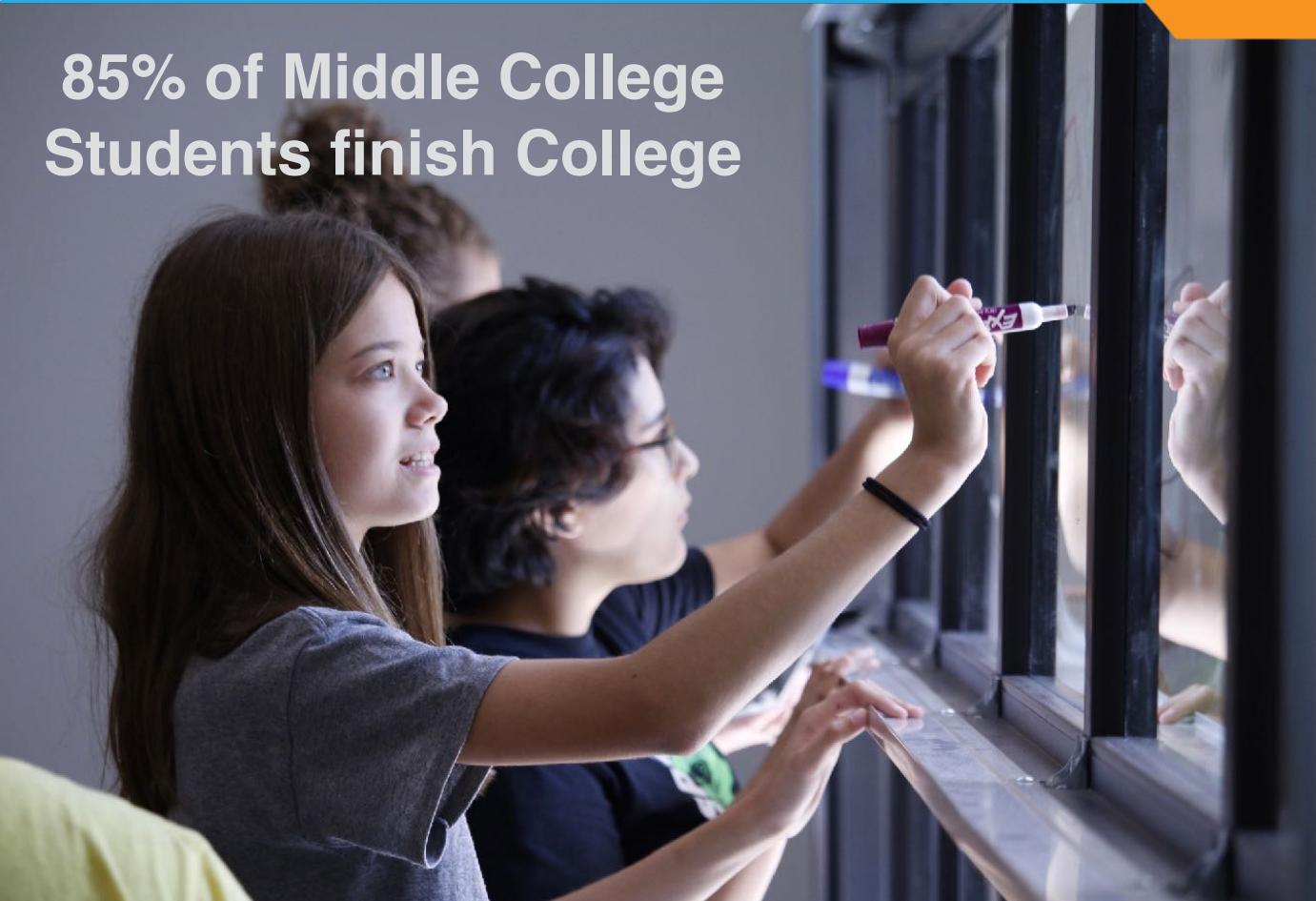
P-Tech

STEM Academies

STEM Learning Labs

# Statistics

**85% of Middle College Students finish College**

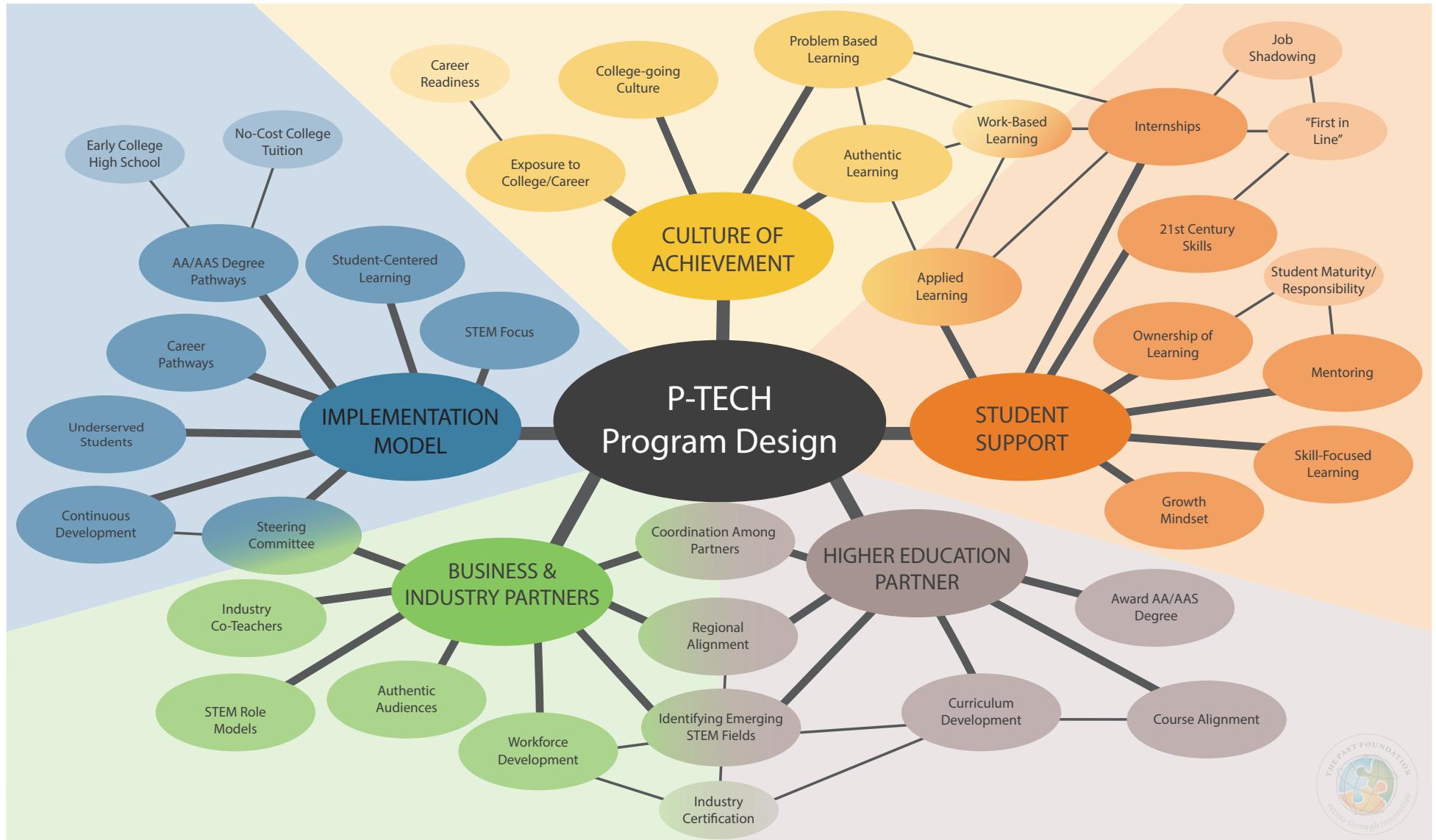


**The STEM workforce on average is growing at 13%**

Millennials will account for over 50% of the workforce by 2025

- 2019 Middle College students will be college and workforce ready in 2 yrs
- 2019 Middle School students will graduate in 2025, let's make sure they are ready for college and workforce

# Integrated Whole Community Model



**Figure 3: P-TECH PROGRAM DESIGN.** This figure shows five core nodes of the program design: **IMPLEMENTATION MODEL**, **CULTURE OF ACHIEVEMENT**, **STUDENT SUPPORT**, and two **PARTNERS** (**HIGHER EDUCATION** and **BUSINESS & INDUSTRY**). The P-TECH Program reflects an early college approach designed to reach underserved students, blending high school and college in a six-year program culminating in an AA/AAS degree. **CULTURE OF ACHIEVEMENT** is aligned to STEM career pathways and work-based learning that exposes students to authentic problem solving, collaborative work with STEM professionals, gaining a growth mindset, STEM skills, and exposure to potential employers. The role of **HIGHER EDUCATION** and **BUSINESS & INDUSTRY** are coordinated through a P-TECH Steering Committee that provides the forum for identifying priorities for workforce development, curriculum development and alignment.

# PAST Innovation Lab - Pathways to Workforce



THE  
PAST FOUNDATION

middle school | 6-8 (m-series)

**mach**  
mach

**maladies**  
maladies

**medi@**  
media

**missile**  
missile

high school | 9-10 (s-series)

**Surge**  
surge

**Stiff**  
stiff

**Signals**  
signals

**Space**  
space

## The Pulse of STEM | The Paths to STEM

high school | 11-12 (learning labs)

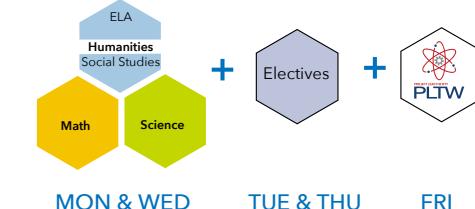
**energy**  
energy

**bodies**  
bodies

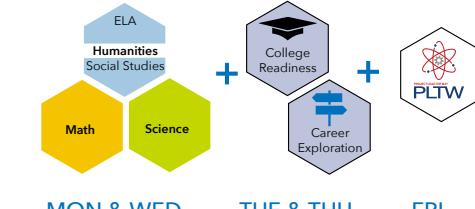
**digital**  
digital

**explore**  
explore

Middle School



High School



Proposed Scheduling

**mud**  
mud

**maker**  
maker

**Sprouts**  
sprouts

**Sprockets**  
sprockets

**growt**  
growth

**design**  
design



CULINARY ARTS  
SUMMER INSTITUTE

culinary arts



ADDITIVE  
MANUFACTURING  
SUMMER INSTITUTE

additive manufacture

# PAST Innovation Lab - Summer Institute Series



## Sprouts Hybrid S-Series (6-weeks Summer)

M	T	W	R	F
English Social Studies Horticulture Permaculture Chemistry Math	College Readiness Study Skills	English Social Studies Horticulture Permaculture Chemistry Math	Career Exploration Rotations Guest Speakers PLTW	CTE Principles of Environmental Sustainability

Students are encouraged to enter the scaffolded pathway in the Growth Series.

Students who are not ready for College or College Plus can start with the Hybrid S-Series.

From there they can opt to take the complete Growth Learning Lab curriculum or the Culinary Arts Summer Institute.

The Summer Institute can be taken in the summer, and then can be followed by the Growth Learning Lab.



## growt metro SCHOOLS (Learning Lab)

### Learning Lab Series (Academic Year)

	Summer Fall	M	T	W	R	F	
		AM	Metro English 1100 Internship	Metro Biology 1111 Horticulture HCS2201 - OSU	Metro English 1100 Internship	Metro Biology 1111 Horticulture HCS2201 - OSU	Intern Lab
	Winter Spring	PM	Open for College Elective/Course High School Class	Open as needed	Open for College Elective/Course High School Class	Open for College Elective/Course High School Class	Open for College Elective/Course High School Class
		AM	Metro English 2367 Food Science FDSCTE 2200 - OSU Capstone Seminar	Metro Biology 1127 Internship	Metro English 2367 Food Science FDSCTE 2200 - OSU Capstone Seminar	Metro Biology 1127 Internship	Intern Lab
		PM	Open for College Elective/Course High School Class	Open for College Elective/Course High School Class	Open for College Elective/Course High School Class	Open for College Elective/Course High School Class	Open for College Elective/Course High School Class

## CULINARY ARTS SUMMER INSTITUTE

### Summer Institute Series (6-weeks Summer)

M	T	W	R	F	
AM	Sanitation Basics (for first week)				
	Fundamentals of Baking				
	PAST/Metro Learning Lab				
PM	Farmers Garden				
	Basic Food Production	Summer Internship	Basic Food Production	Summer Internship	Basic Food Production
	PAST College Metro	College Plus	University Courses	High School Internship	Farmers Garden

# The Future of Teaching and Learning



What Will Alaska's Model Look Like?

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