





Career Literacy

The Massachusetts High Quality College and Career Pathways Initiative

Each pathway is anchored in the same five guiding principles:

- 1. Equitable access
- 2. Guided Academic Pathways
- 3. Enhanced Student Support
- 4. Connection to Career
- 5. Effective Partnerships



Career Literacy

The Massachusetts High Quality College and Career Pathways Initiative

Each pathway is anchored in the same five guiding principles:

4. Connection to Career



Career Literacy

The Massachusetts High Quality College and Career Pathways Initiative

#4: Connection to Career

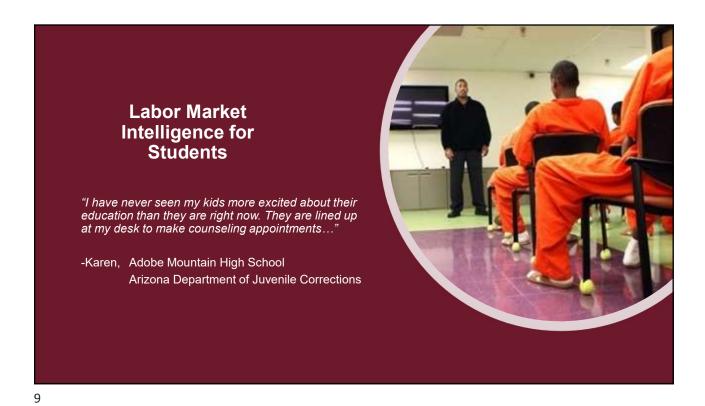
"Designated programs should expose students to a variety of career opportunities including greater depth in careers relevant to their selected pathway"



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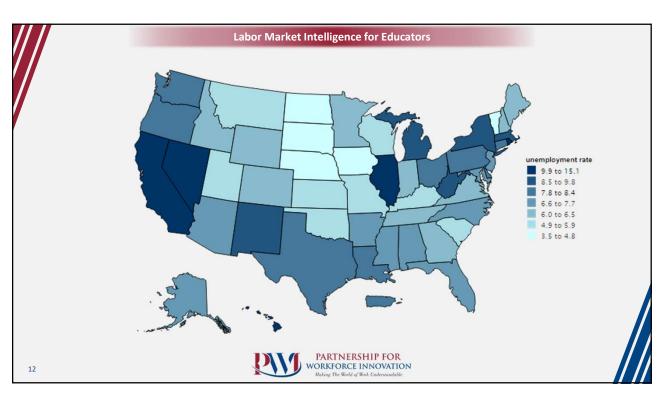
Agenda

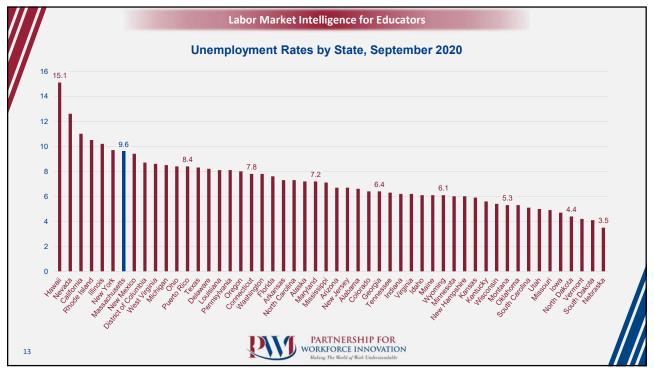
03 The Massachusetts Labor Market

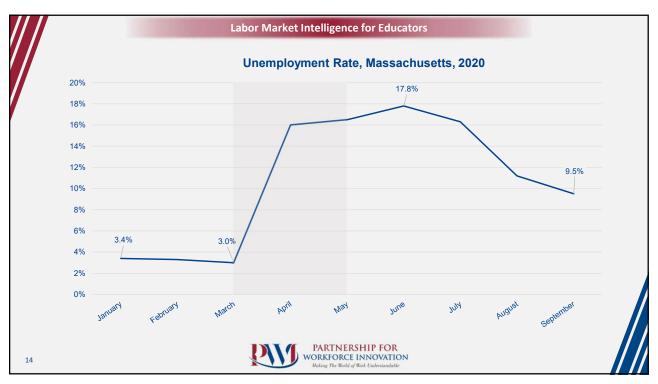
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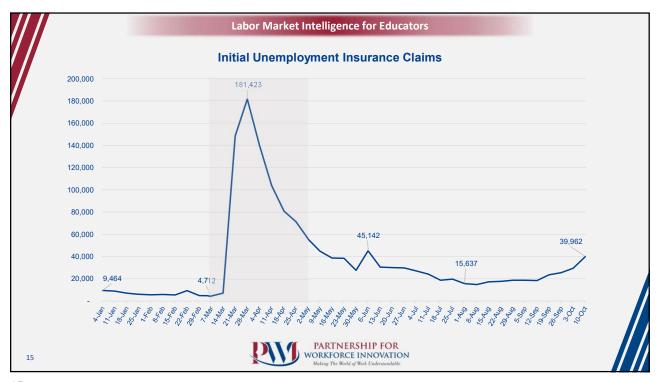


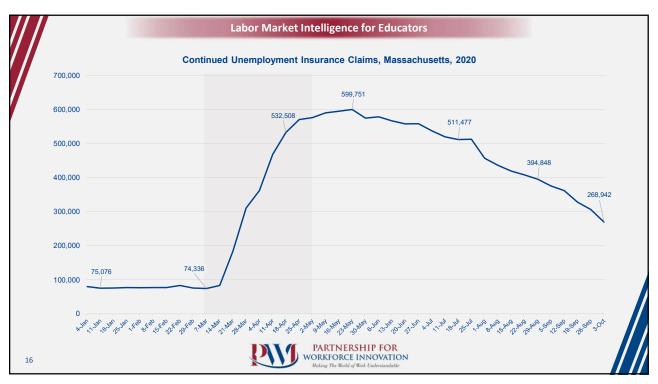
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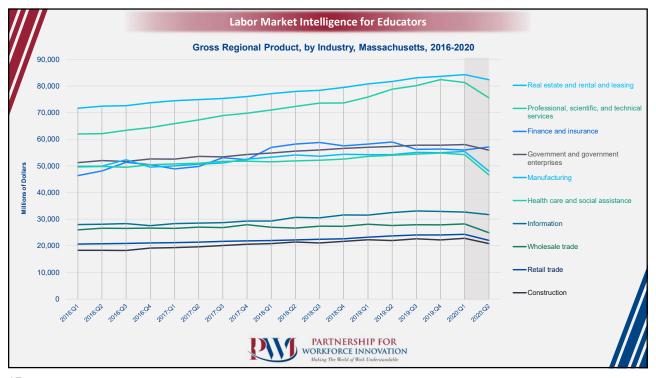




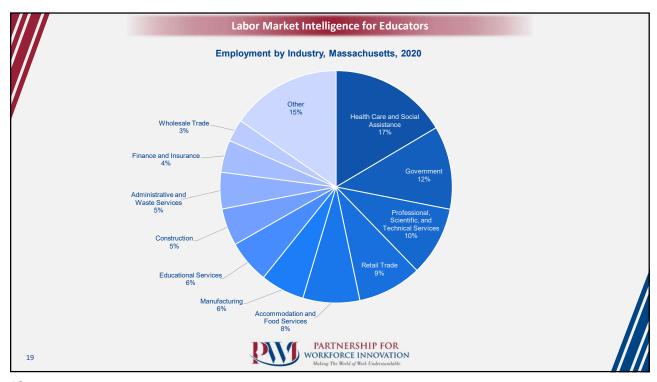








MASSACHUSETTS EMPLOYERS EMPLOYERS PARTNERSHIP FOR MOREFORCE INNOVATION MOREFORCE INNOVATION

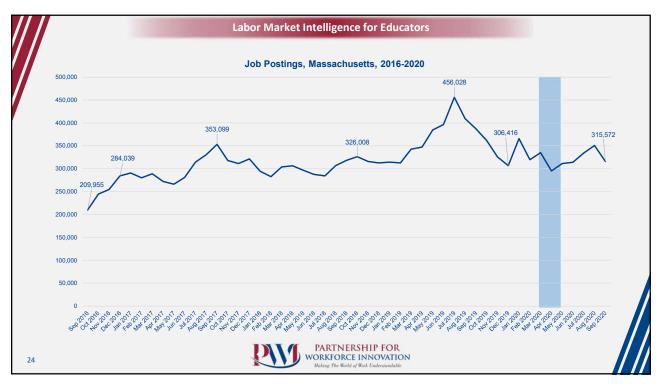


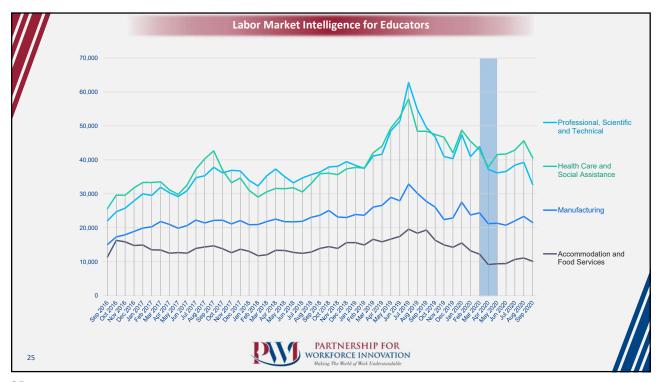
Industries by Jobs, Massachusetts, 2019 Q4	Establishments	Jobs	Average Wages	Location
•			, ,	Quotient
Restaurants and Other Eating Places	13,768	245,539	\$23,996	0.92
Education and Hospitals (Local Government)	732	175,768	\$60,877	0.83
General Medical and Surgical Hospitals	190	169,217	\$78,304	1.45
Colleges, Universities, and Professional Schools	307	164,445	\$53,719	3.38
Individual and Family Services	48,359	104,123	\$27,406	1.59
Local Government, Excluding Education and Hospitals	3,601	96,893	\$70,334	0.69
Computer Systems Design and Related Services	8,440	86,371	\$159,920	1.58
Grocery Stores	2,792	83,851	\$25,820	1.28
Scientific Research and Development Services	2,575	78,295	\$185,545	4.37
Management of Companies and Enterprises	1,517	74,134	\$139,116	1.26
State Government, Excluding Education and Hospitals	2,164	70,067	\$81,129	1.26
Employment Services	2,257	64,820	\$51,400	0.74

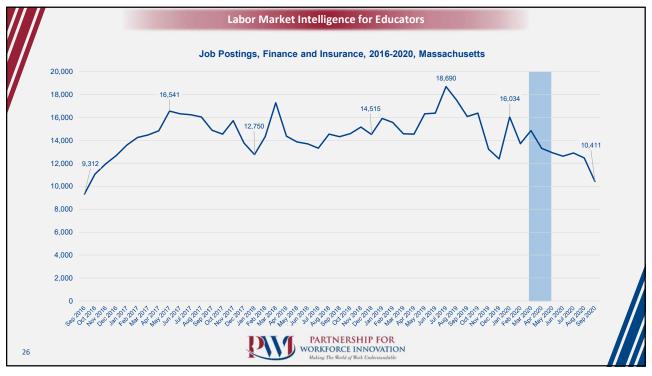
Industries by Location Quotient, Massachusetts, 2020 Q2				
Industry	Establishments	Jobs	Average Wages	Location Quotient
Fishing	331	1,363	\$120,540	8.35
Audio and Video Equipment Manufacturing	23	2,536	\$139,511	5.03
Footwear Manufacturing	6	1,401	\$71,703	4.54
Scientific Research and Development Services	2,575	78,295	\$185,545	4.37
Cutlery and Handtool Manufacturing	32	3,495	\$101,576	3.81
Specialty (except Psychiatric and Substance Abuse) Hospitals	46	21,032	\$70,194	3.65
Colleges, Universities, and Professional Schools	307	164,445	\$53,719	3.38
Seafood Product Preparation and Packaging	46	2,780	\$61,628	3.21
Software Publishers	1,488	34,402	\$163,538	3.07
Other Financial Investment Activities	2,658	31,824	\$305,314	2.65
Navigational, Measuring, Electromedical, & Control Instruments Manufacturing	348	25,532	\$128,881	2.47
Textile and Fabric Finishing and Fabric Coating Mills	68	1,766	\$73,592	2.44

Industries by Average Wages, Massachusetts, 2020 Q1				
Industry	Establishments	Jobs	Average Wages	Location Quotient
Spectator Sports	154	2,751	\$322,610	0.76
Other Financial Investment Activities	2,658	31,824	\$305,314	2.65
Securities and Commodity Contracts Intermediation and Brokerage	815	12,924	\$299,786	1.16
Scientific Research and Development Services	2,575	78,295	\$185,545	4.37
Drugs and Druggists' Sundries Merchant Wholesalers	473	6,667	\$180,253	1.15
Software Publishers	1,488	34,402	\$163,538	3.07
Computer and Peripheral Equipment Manufacturing	54	8,711	\$160,850	2.21
Computer Systems Design and Related Services	8,440	86,371	\$159,920	1.58
Activities Related to Credit Intermediation	389	3,021	\$156,445	0.41
Other Information Services	1,018	12,194	\$153,553	1.48
Nondepository Credit Intermediation	545	5,841	\$145,354	0.42
Electric Power Generation, Transmission and Distribution	202	7,880	\$144,915	0.83

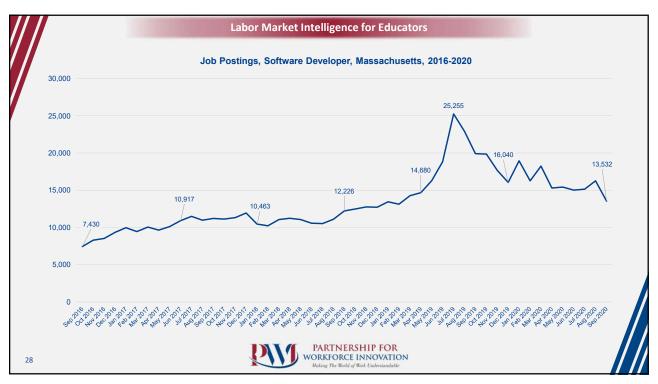








	Labor Market Intelligence for Educators		- 60
	Top Occupations by Job Postings, Finance Insurance Industry, Massachusetts, October 2		
	Occupation	Postings, 2020	
	Software Developers	32,254	
	Financial Managers	25,983	
	Securities, Commodities & Financial Services Sales Agents	20,970	
	Insurance Sales Agents	16,491	
	Tellers	17,566	
	Management Analysts	14,477	
	Marketing Managers	12,824	
	Customer Service Representatives	11,269	
27	PARTNERSHIP FOR WORKFORCE INNOVATION Making The World of Whole Understandable		



Job Titles Postings, 2020 Software Engineers 57,698 Senior Software Engineers 36,407 Back End Engineers 18,835 Front End Engineers 17,894 Full Stack Software Engineers 24,899 DevOps Engineers 9,477	Software Develo	pers	
Senior Software Engineers 36,407 Back End Engineers 18,835 Front End Engineers 17,894 Full Stack Software Engineers 24,899	Job Titles		
Back End Engineers 18,835 Front End Engineers 17,894 Full Stack Software Engineers 24,899	Software Engineers	57,698	
Front End Engineers 17,894 Full Stack Software Engineers 24,899	Senior Software Engineers	36,407	
Full Stack Software Engineers 24,899	Back End Engineers	18,835	
	Front End Engineers	17,894	
DevOps Engineers 9,477	Full Stack Software Engineers	24,899	
	DevOps Engineers	9,477	
Software Security Engineers 13,907	Software Security Engineers	13,907	

	Labor Mark	et Intelligence for Educators	
	So	ftware Developers	
		Skills	
	Software Engineering	Computer Science	
	Java	Hyper Text Markup Language	
	SQL	Cascading Style Sheets	
	JavaScript	Scalability	
	Software Development	Application Programming Interface (API)	
	Python	C#	
	Amazon Web Services	Version Control	
	Agile Methodology	Linux	
30	DAV	PARTNERSHIP FOR WORKFORCE INNOVATION	



Synthesizing Labor Market Intelligence

Five Things I Wish Your Students Knew About the World of Work

#1: It will likely not be necessary to leave
Massachusetts to find a great career in the field
you love.



Synthesizing Labor Market Intelligence

Industries that pay more in Massachusetts than the national average:

- Information
- Finance and Insurance
- Professional, Scientific and Technical Services
- Management of Companies
- Education
- Health Care and Social Assistance



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Synthesizing Labor Market Intelligence

Five Things I Wish Your Students Knew About the World of Work

#2: The ability to learn might be the single most critical professional skill you ever develop.



Synthesizing Labor Market Intelligence

#3: The most in-demand and most lucrative careers in our labor market require significant levels of math and reading skills.



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Synthesizing Labor Market Intelligence

Five Things I Wish Your Students Knew About the World of Work

#4: It's not all about academics and technical skills.



Synthesizing Labor Market Intelligence

Five Things I Wish Your Students Knew About the World of Work

Top Requested Skills:

- Communication
- Dedication

- Collaboration
- Customer Service



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Synthesizing Labor Market Intelligence

Five Things I Wish Your Students Knew About the World of Work

Top Requested Technical Skills (#22):

- (#22) Writing
- (#25) Engineering
- (#27) Nursing





Closing and Call to Action

Conclusions and Recommendations

- Classroom evaluations of labor market trends
- Workforce Equilibrium Analyses for key industries
- Skills maps for critical pathways
- Industry sector partnerships



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