Oregon's Tech Ecosystem

A 2024 Perspective

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Economic Impact Snapshot

Oregon Tech Industry

106,834	$161,225	9,559
Tech Industry Jobs	Average Earnings Per Job	Tech Industry Firms

$30.8B	$17.6B	$822.3M
Gross Regional Product	Earnings	Taxes Paid

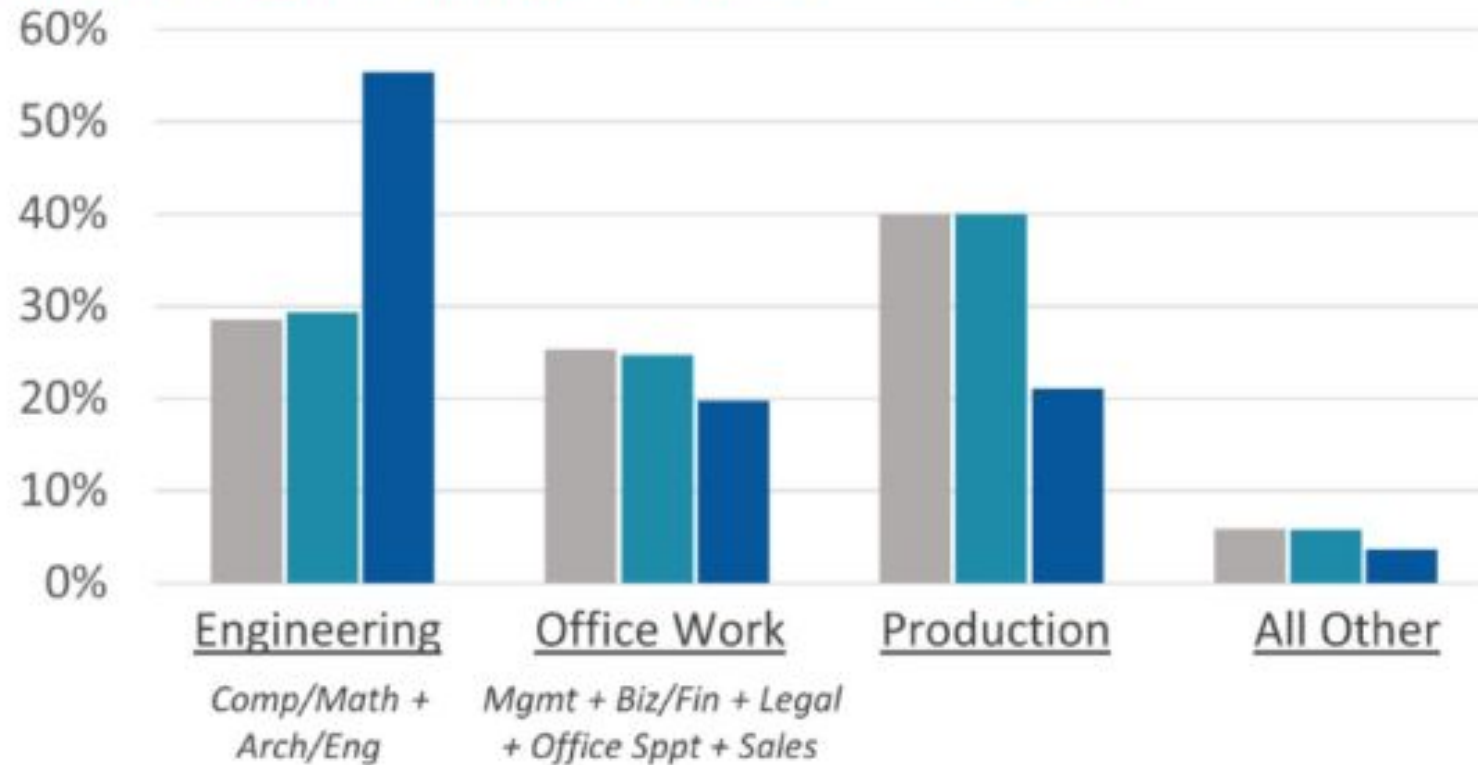**Gross Regional Product Trend**

Source: Lightcast

TIME
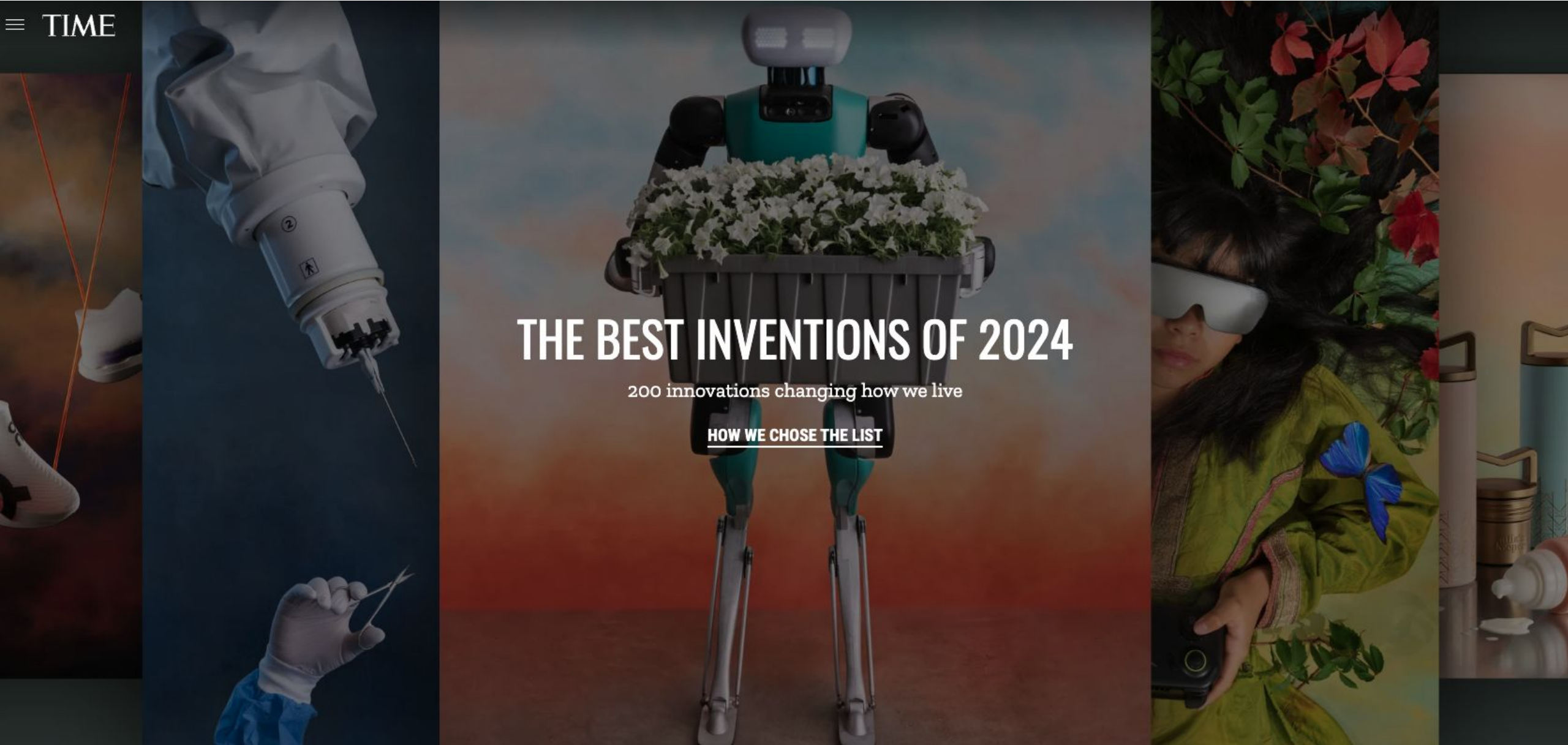
THE BEST INVENTIONS OF 2024

200 innovations changing how we live

HOW WE CHOSE THE LIST

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Semiconductor Workforce

Share of all jobs by occupation in the United States, the 10 States with the Largest Semiconductor Workforce, and Oregon

Oregon's Rank (out of 51 States and DC)

		Relative Performance	5-Year Change
Commercialization		14	23
	Entrepreneurship	24	40
	Invention Disclosures	28	31
	Patents	4	6
	Research & Development Investments	18	42
	University License Income	13	20
	University Licenses	1	5
	University Start-ups	5	11
	Venture Capital	18	27
Business Environment		18	35
	Business Growth	23	45
	Exports	5	4
	High Tech Employment	14	43
	Manufacturing GDP	15	44
	Small Business Awards	33	40
Skills/Talent		17	29
	Average Wage	17	8
	Broadband Access	15	NA
	Educational Attainment	18	43
	Knowledge Workers	18	48
	STEM Workforce	17	15

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AI Talent Is in Demand as Other Tech Job Listings Decline

Postings for artificial-intelligence-related roles are growing and touting higher pay

Newly listed U.S. jobs, change from a year earlier

New listings of AI-related jobs are rising, year-over-year, while tech job listings are falling
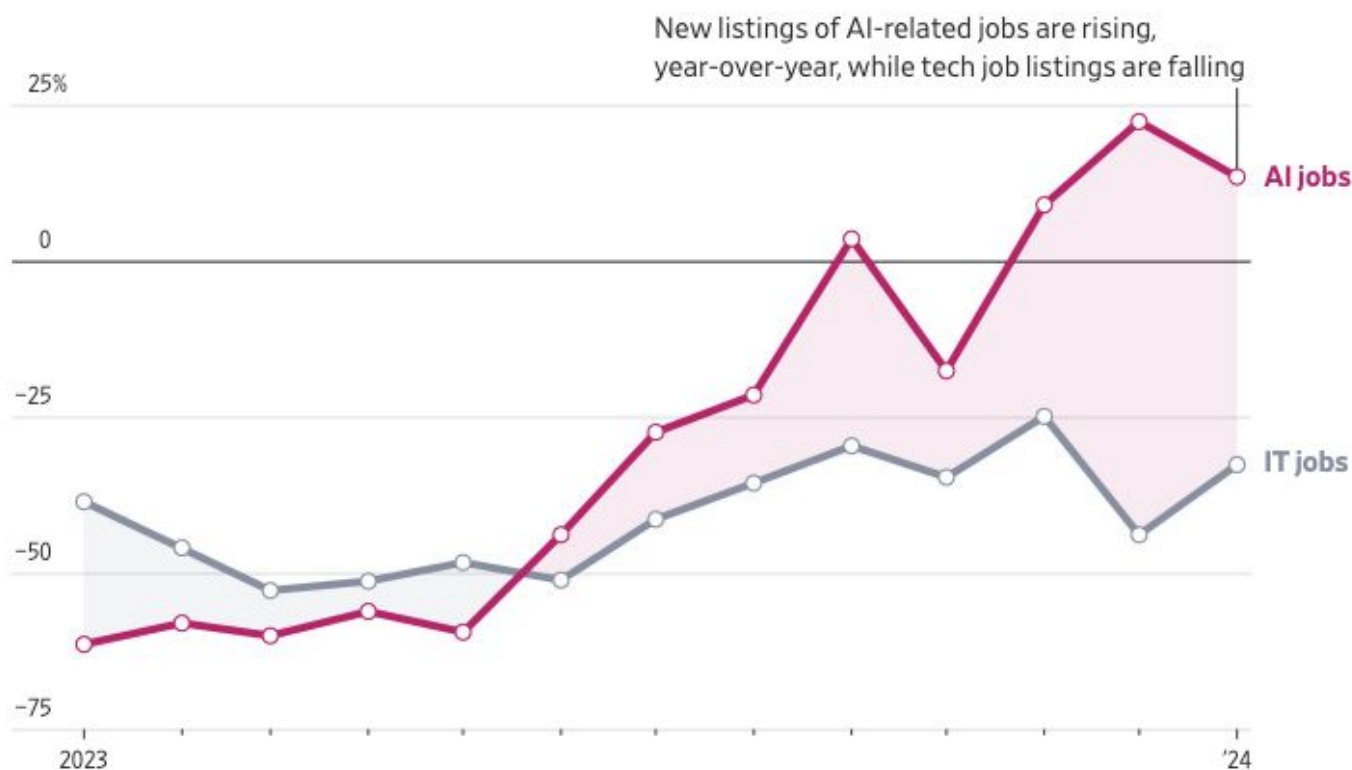
Source: UMD-LinkUp AI Maps

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The AI Stack

The Lifeblood of AI Systems — Models

A New Kind of Energy Source in the Generative World Order — Data

Hardware Evolving Alongside Software — Compute

Nutrients for Artificial Intelligence — Energy

AI Sandboxes Located at Oregon Research Universities - Climate, Health & Wellness, GovTech + Infrastructure, Etc.

NSF RIE Semiconductors (OSU, UO)
Collaborative Innovation Complex (OSU)
CorMic EDA Tech Hub (OSU, OHSU, UO)

Powerize NW Consortium (PSU)
NSF RIE SEQUINS (PSU)

Source: Office of Applied Innovation

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CorMic Tech Hub

- OSU, UO, HP, NVIDIA, Intel, etc.
- CHIPS Act Funding via EDA

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FAST Regional Innovation Engine

- OSU, UO, Synopsys, Siemens, NVIDIA, Intel, etc.
- CHIPS Act Funding via NSF

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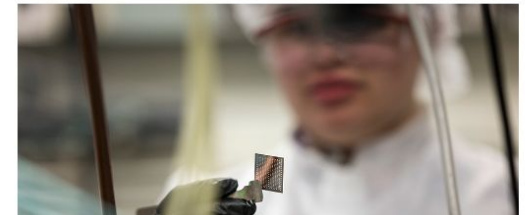# SEQUINS + Powerize Northwest Consortium

- Smart Grids - Smart, Equitable, Interoperable & Secure

- Funding via NSF

- PSU, UO, OSU, Bonneville, Port of Portland, IBEW Local 48, Galois, Powin, PGE, Intel, Pacificorp, ESS Inc.

SEQUINS

Our Regional Innovation Engines Development Award will achieve energy equity and prosperity through an ecosystem that is **Smart, EQUitable, INteroperable and Secure.**

Exhibit 1. Clean Growth Tool Economic Area Feasibility Ranking, Oregon

RMI Clean Growth Tool Transition Subsector	Portland-Vancouver-Beaverton, OR-WA (EA)	Eugene-Springfield, OR (EA)	Bend-Prineville, OR (EA)	Pendleton-Hermiston, OR (EA)
Air Protection & Management Machinery & Equipment Manufacturing	12	51	46	167
Air Protection & Management Services	22	11	27	167
Building Efficiency Machinery & Equipment Manufacturing	40	32	51	158
Electric Vehicle & Component Manufacturing	12	17	79	129
Energy Storage & Transmission	20	45	108	150
Energy Storage & Transmission Machinery & Equipment Manufacturing	15	39	57	169
Environmental Monitoring Machinery & Equipment Manufacturing	18	30	48	149
Green Hydrogen & Sustainable Fuels	26	33	92	172
Green Product Manufacturing	14	22	42	133
Low-Carbon Chemical Manufacturing	24	16	51	170
Low-Carbon Construction Machinery & Equipment Manufacturing	32	9	62	152
Low-Carbon Energy Machinery & Equipment Manufacturing	11	27	31	141
Low-Carbon Energy Production	30	22	73	163
Low-Carbon Fabricated Metal Manufacturing	15	18	50	174
Low-Carbon Forest & Agricultural Biomass Production	11	2	15	30
Low-Carbon Forestry & Farming Machinery & Equipment Manufacturing	16	2	26	89
Low-Carbon Heating & Cooling Machinery & Equipment Manufacturing	15	16	29	161
Low-Carbon Industrial Machinery & Equipment Manufacturing	24	10	22	153
Low-Carbon Primary Metal Manufacturing	19	30	104	161
Low-Carbon Vehicle & Component Manufacturing	11	21	15	139
Water Protection & Management Machinery & Equipment Manufacturing	16	36	19	155
Water Protection & Management Services	18	11	2	113

Note: This table presents selected subsectors and Economic Areas.
Source: Rocky Mountain Institute and Brookings, Clean Growth Tool, 2024
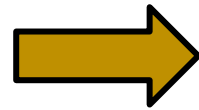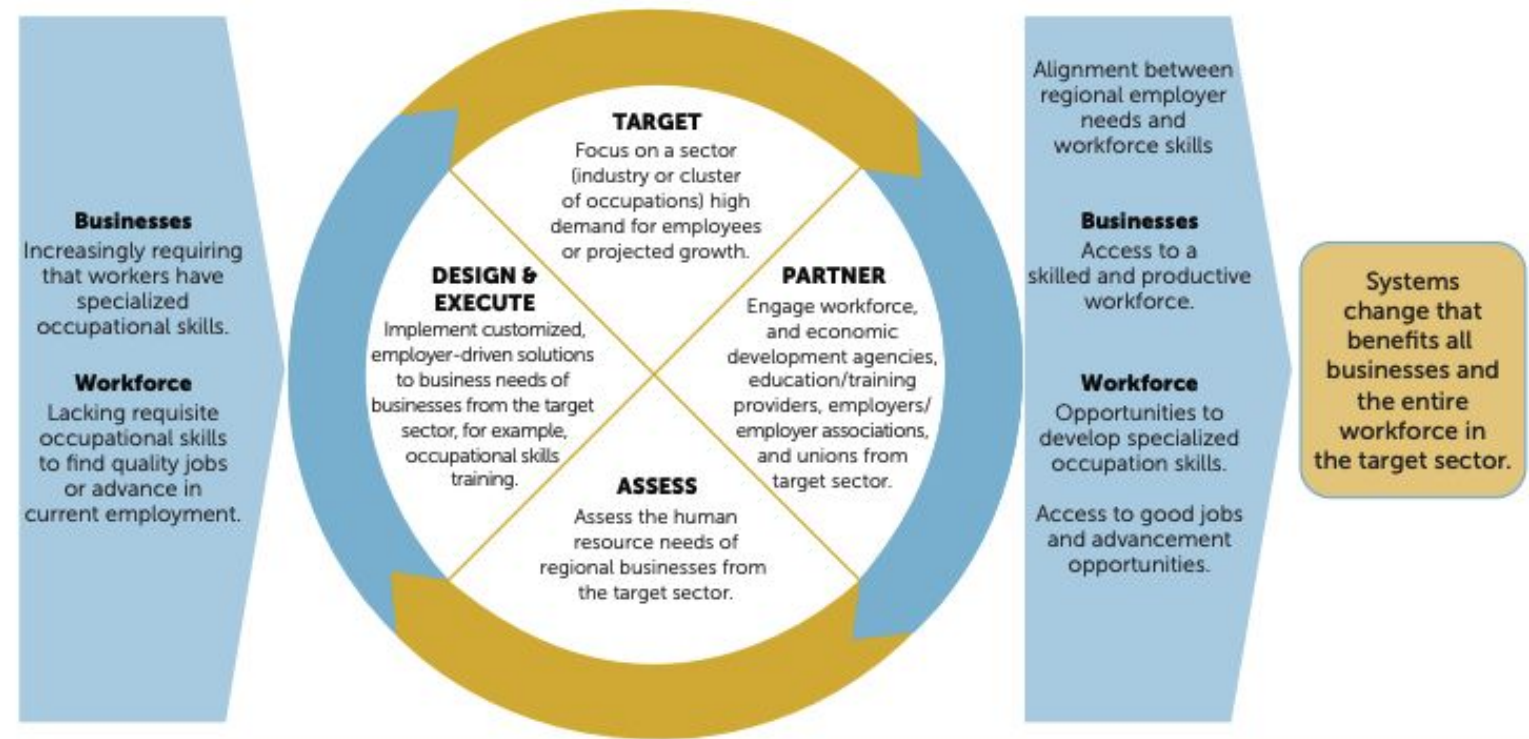
Workforce Initiatives

Figure 1. Framework for understanding the goals, features, and intended outcomes of sector strategies

Sources: This framework draws on Conway et al. (2007); Maguire et al. (2010); Roder et al. (2008); Zandniapour and Conway (2002); and WIA Gold Standard Evaluation qualitative data collection, 2012-2014.

Professional Development Opportunities

- Micro-credentialing focused on tech certifications such as AI, Data, Cybersecurity
- Human skills
  - People Management
  - Communication
  - Leadership
  - Strategic Thinking
  - Multi-disciplinary

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