

Shaping Future Talent for Programming and Web Development

DESE Chapter 74 Frameworks



WHO

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WHAT

We create solutions that yield high value and actionable results.

WHY

When a student can see it. They can be it.

Closing the Gaps

43%



Education

40%



Economic
Development

80%



Employment

10%



Equity



RESEARCH

Supporting education initiatives and priorities with **actionable research**



POLICY

Validating policy issues in K-12, Post Secondary and Business



Practice

Data-informed and evidence-based practices to create a **robust career readiness model**

Labor Market Overview

Target Occupations Openings

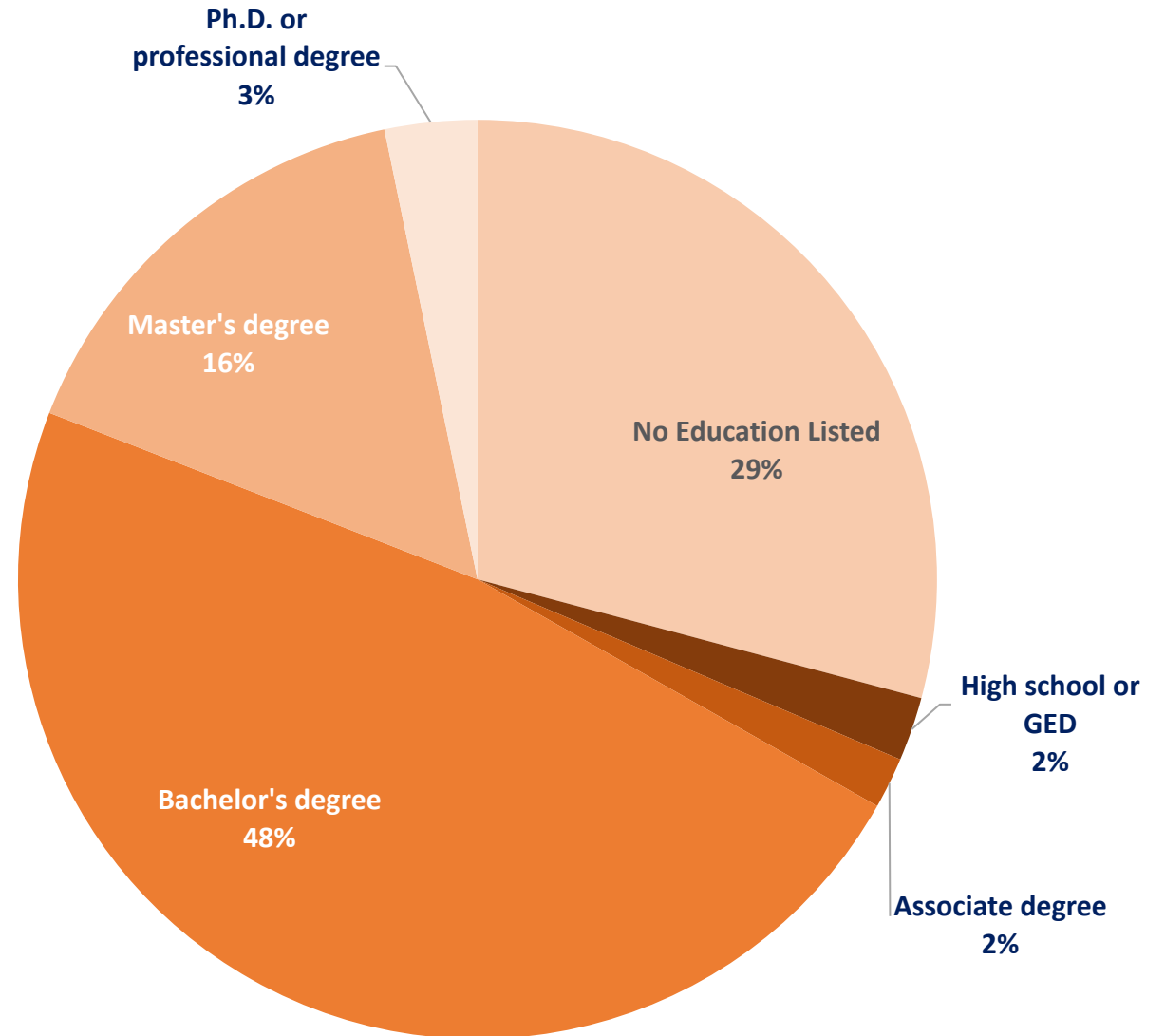
Occupation	2022 Jobs	Annual Openings	Median Annual Earnings	Location Quotient (2022)
Software Developers	64,525	7,191	\$127,919	1.8
Computer and Information Systems Managers	23,236	2,203	\$162,866	1.8
Computer Systems Analysts	15,281	1,404	\$102,315	1.2
Computer Occupations, All Other	9,032	911	\$98,471	.9
Computer Programmers	6,055	469	\$100,981	1.4
Software Quality Assurance Analysts and Testers	4,877	590	\$102,670	1.0
Computer Network Support Specialists	4,173	403	\$80,057	.9
Web and Digital Interface Designers	3,331	328	\$74,575	1.3
Web Developers	3,005	297	\$76,436	1.1
Computer and Information Research Scientists	1,149	143	\$127,774	1.3

Postsecondary Completions

Program	2021 Completions
Computer Science	3,617
Computer and Information Sciences, General	1,596
Information Science/Studies	844
Data Modeling/Warehousing and Database Administration	543
Computer Software and Media Applications, Other	539
Information Technology	386
Computer and Information Systems Security/Auditing/Information Assurance	323
Informatics	142
Computer Systems Networking and Telecommunications	121
Computer Programming, Specific Applications	74

Educational Requirements

Educational Requirements, Job Postings for Related Occupations



CompTIA

2022 Job Postings

475 postings

\$57,000 median advertised salary

Three-year wage trend + 14.2%

Employers:

- Raytheon
- Robert Half
- Deloitte
- Capgemini
- General Dynamics

Top Job Titles:

- Desktop Support Technicians
- Systems Administrators
- Field Service Technicians

Top qualifications

- A+
- Security+
- Network+
- CISSP
- Security Clearance

Skills Profiles

Software Developers

Web Developers

**Any Surprises or
Observations in the Data?**

What's Missing?

If you could have the perfect young candidate, what minimum competencies would you want to see?

What Technology and Competency Changes Are Coming to the Industry?

Current

Emerging

Future

What Does Competency Look Like to You?

How Do You Know if a Candidate is Qualified?

Thank You!

