

| HIGH SCHOOL/ INDUSTRY CERTIFICATION | CERTIFICATE/ LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | DOCTORAL PROFESSIONAL DEGREE | | |
|---|--|--|--|------------------------------------|--|--|
| Oracle Certified Association JAVA SE 8 Programmer | Certified Computing Professional | Computer Programming/Pro grammer General | Mangement Information Systems, General | | | |
| Oracle Certified Database Associate | Cloud Technology Associate Certification | Computer Software Engineer | | | | |
| | AEM 6 Developer | Computer Science | | | | |
| | Certifed Software Analyst | Information Science/Studies | | | | |
| *Includes Level I and Level II Certificates | | | | | | |
| For more information on postsecondary options for this programs of study, visit TXCTE.org | | | | | | |

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|---|----------------|-----------------|-------------|
| Computer Network Architect | \$111, 633 | 1,454 | 9% |
| Software Developer, Systems Software | \$111,285 | 1,674 | 17% |
| Software Developer, Applications | \$103,325 | 7,388 | 31% |
| Computer and Information Systems Managers | 131,204 | 1,426 | 19% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Work Based Learning **Exploration Activities: Activities:**

Girls in Computer Science, Obtain an industry based

Computer Science Club (UIL) certification.

The programming and Software Development program of study explores the occupations and education opportunities associated with researching, designing, developing, and testing operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This program of study may also include exploration into creating, modifying, and testing the codes, forms, and script that allow computer applications to run



The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

