

Information Technology:

Training requirements vary by occupation. Workers can enter this field with many different levels of formal education, but relevant computer skills are always needed. Certification may improve an applicant's chances for employment and can help workers maintain adequate skill levels throughout their careers

Occupations in Field	Projected Income (Annual Mean Wage)	Education Required	Licensing/Credentials Required (by State)
Computer & Information Systems Manager	123,280	Bachelors Degree in a computer related major required, Masters degree preferred	Certifications are not required but demonstrate professional expertise and are often preferred. These certifications are generally product specific and are administered by software or hardware companies and not individual organizations.
Computer Software Engineer	computer applications software engineers - \$85,430 computer systems software engineers - \$92,430	Bachelors Degree required, Masters degree preferred	Certifications are not required but demonstrate professional expertise and are often preferred. These certifications are generally product specific and are administered by software or hardware companies and not individual organizations.
Computer Support Specialist	49,930	Associates degree acceptable, Bachelors degree preferred	Certifications are not required but demonstrate professional expertise and are often preferred. These certifications are generally product specific and are administered by software or hardware companies and not individual organizations.
Computer Systems Analyst	81,250	Bachelors Degree required, Masters degree preferred. Additional training/expertise relevant to the job (example: bank – finance; hospital – health	Licensing/Certification not required.

		information management) is helpful	
Computer, Automated Teller & Office Machines Repairer	39,080	Associates degree in electronics.	Certification is not required but is often preferred by employers. Certification is available via The Electronics Technicians Association (ETA) and The International Society of Certified Electronics Technicians . To become certified, applicants must meet several prerequisites and pass a comprehensive written or online examination.
Database Administrator	75,730	Bachelors degree generally required; some employers prefer a MBA with a concentration in information systems.	Certifications are not required but demonstrate professional expertise and are often preferred. These certifications are generally product specific and are administered by software or hardware companies and not individual organizations.
Multi-Media Artist or Animator	63,440	Bachelors Degree in Fine Arts with training in computer techniques.	Certification is not required.
Network & Computer Systems Administrator	72,200	Bachelors degree generally required; Associates degree + certifications may be acceptable.	Certifications are not required but demonstrate professional expertise and are often preferred. These certifications are generally product specific and are administered by software or hardware companies and not individual organizations.
Network Systems & Data Communications Analyst	71,100	Bachelors Degree	Certifications are not required but demonstrate professional expertise and are often preferred. These certifications are generally product specific and are administered by software or hardware companies and not individual

			organizations.
Web Designer/Graphic Designer	48,140	Bachelors Degree in Graphic Design OR another major +2 yr program in Graphic design	No Certification/Licensing Requirements.