

# OCCUPATIONAL OUTLOOK HANDBOOK

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## Computer and Information Technology Occupations

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Employment of computer and information technology occupations is projected to grow 13 percent from 2016 to 2026, faster than the average for all occupations. These occupations are projected to add about 557,100 new jobs. Demand for these workers will stem from greater emphasis on cloud computing, the collection and storage of big data, and information security.

The median annual wage for computer and information technology occupations was \$82,860 in May 2016, which was higher than the median annual wage for all occupations of \$37,040.

	OCCUPATION	JOB SUMMARY	ENTRY-LEVEL EDUCATION	2016 MEDIAN PAY
	<a href="#">Computer and Information Research Scientists</a>	Computer and information research scientists invent and design new approaches to computing technology and find innovative uses for existing technology. They study and solve complex problems in computing for business, medicine, science, and other fields.	Master's degree	\$111,840
	<a href="#">Computer Network Architects</a>	Computer network architects design and build data communication networks, including local area networks (LANs), wide area networks (WANs), and Intranets. These networks range from small connections between two offices to next-generation networking capabilities such as a cloud infrastructure that serves multiple customers.	Bachelor's degree	\$101,210
	<a href="#">Computer Programmers</a>	Computer programmers write and test code that allows computer applications and software programs to function properly. They turn the program designs created by software developers and engineers into instructions that a computer can follow.	Bachelor's degree	\$79,840
	<a href="#">Computer Support Specialists</a>	Computer support specialists provide help and advice to computer users and organizations. These specialists either support computer networks or they provide technical assistance directly to computer users.	<a href="#">See How to Become One</a>	\$52,160
	<a href="#">Computer Systems Analysts</a>	Computer systems analysts, sometimes called <i>systems architects</i> , study an organization's current computer systems and procedures, and design solutions to help the organization operate more efficiently and effectively. They bring business and information technology (IT) together by understanding the needs and limitations of both.	Bachelor's degree	\$87,220
	<a href="#">Database Administrators</a>	Database administrators (DBAs) use specialized software to store and organize data, such as financial information and customer shipping records. They make sure that data are available to users and secure from unauthorized access.	Bachelor's degree	\$84,950
	<a href="#">Information Security Analysts</a>	Information security analysts plan and carry out security measures to protect an organization's computer networks and systems. Their responsibilities are continually expanding as the number of cyberattacks increases.	Bachelor's degree	\$92,600
	<a href="#">Network and Computer Systems Administrators</a>	Computer networks are critical parts of almost every organization. Network and computer systems administrators are responsible for the day-to-day operation of these networks.	Bachelor's degree	\$79,700
	<a href="#">Software Developers</a>	Software developers are the creative minds behind computer programs. Some develop the applications that allow people to do specific tasks on a computer or another device. Others develop the underlying systems that run the devices or that control networks.	Bachelor's degree	\$102,280

	<b>OCCUPATION</b>  <a href="#">Web Developers</a>	<b>JOB SUMMARY</b>  Web developers design and create websites. They are responsible for the look of the site. They are also responsible for the site's technical aspects, such as its performance and capacity, which are measures of a website's speed and how much traffic the site can handle. In addition, web developers may create content for the site.	<b>ENTRY-LEVEL EDUCATION</b> ⓘ  Associate's degree	<b>2016 MEDIAN PAY</b> ⓘ  \$66,130
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**Last Modified Date:** Tuesday, January 30, 2018

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