

Sample of Computing Occupations

All computing majors have the potential to do any one of these occupations. Skills learned outside the classroom and experience are vital components that students must pursue on their own for the career and occupation they desire.

Occupation	Job Summary	Median Pay
Computer Network Architect	Computer network architects design and build data communication networks, including local area networks (LANs), wide area networks (WANs), and intranets. These networks range from a small connection between two offices to a multinational series of globally distributed communications systems.	\$98,430
Computer Programmer	Computer programmers write code to create software programs. They turn the program designs created by software developers and engineers into instructions that a computer can follow.	\$77,550
Computer Systems Analyst	Computer systems analysts study an organization's current computer systems and procedures and design information systems 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.	\$82,710
Computer Support Specialist	Computer support specialists provide help and advice to people and organizations using computer software or equipment. Some, called computer network support specialists, support information technology (IT) employees within their organization. Others, called computer user support specialists, assist non-IT users who are having computer problems.	\$50,380
Database Administrator	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 are secure from unauthorized access.	\$80,280
Network and Computer Systems Administrator	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.	\$75,790
Software Engineers/Developer	Software developers are the creative minds behind computer programs. Some develop the applications that allow people to do specific tasks on a computer or other device. Others develop the underlying systems that run the devices or control networks.	\$97,990
Web Developer	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 performance and capacity, which are measures of a website's speed and how much traffic the site can handle. They also may create content for the site.	\$63,490
Computer and Information Systems Manager	Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	\$123,950
Video Game Designer	Design core features of video games. Specify innovative game and role-play mechanics, story lines, and character biographies. Create and maintain design documentation. Guide and collaborate with production staff to produce games as designed.	\$83,410 ^[4]
Video Game Programmer	Game Programmers work at the heart of the game development process. They design and write the computer code that runs and controls the game, incorporating and adapting any ready-made code libraries and writing custom code as required. They test the code and fix bugs, and also develop customized tools for use by other members of the development team. ^[1]	\$75,069 ^[2]
Information Security Analyst	Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses.	\$88,890
Android Developer	Android software developers are in charge of creating effective mobile applications for their organization on the Android platform. They create software designed to meet company objectives and provide excellent customer satisfaction. They evaluate frameworks to decide which will produce the best results using less resources. They also create highly scalable software systems for increased efficiency.	\$77,468 ^[3]

Sources: Computer and Information Technology Occupations. (2014, January 8). Retrieved February 10, 2016, from <http://www.bls.gov/ooh/computer-and-information-technology/home.htm>

Computer Science STEM Discipline. (2010, January 1). Retrieved February 17, 2015, from <http://www.onetonline.org/find/stem?t=1&g=Go>

[1] http://creativeskillset.org/job_roles_and_stories/job_roles/336_game_programmer

[2] (Updated Jan 31, 2016, National Average) https://www.glassdoor.com/Salaries/game-programmer-salary-SRCH_KOO,15.htm

[3] http://www.payscale.com/research/US/job=Android_Software_Developer/Salary

[4] <http://www.onetonline.org/link/summary/15-1199.11>