



FAMILY & CONSUMER SCIENCES

HEALTH SCIENCE

SKILLED & TECHNICAL SCIENCES

MARKETING

INFORMATION TECHNOLOGY

BUSINESS

AGRICULTURE

TECHNOLOGY & ENGINEERING

KEY to the information in the CAREER CHARTS*

Star Rating

The Utah Department of Workforces Services created the star rating system to rank jobs based on both outlook (90 percent on the number of annual openings projected for the occupation, and 10 percent on the growth rate) and wages (median annual wages for the occupation in Utah). "Five Star" jobs are those with the strongest employment outlook and high wages, with four, three, two and one star ratings applied as the rankings go down. Please note, however, that occupations are grouped by training level and so the wages for a "high paying" job that requires just short-term on-the-job training, will not match the wages of a "high paying" job that requires a college education. In addition, a five star rating does not necessarily mean that a job will be easy to find since that will depend on the number of qualified applicants available to fill openings. Think "demand vs. supply."

Occupational Title & Description

Occupational titles and descriptions reflect information developed by the U. S. Department of Labor to use in the Occupational Information Network, also known as "O*NET." (<http://online.onetcenter.org/>)

Interest Code

Also known as "Holland codes," the interest codes assigned to occupations in the chart come from O*NET. You may have taken an interest assessment to help you understand your personal career interest code, and that will help you find occupations that are suited to your interests. For more information on "Realistic (R)," "Investigative (I)," "Artistic (A)," "Social (S)," "Enterprising (E)," and "Conventional (C)" interest types (and combinations thereof), talk to your school counselor and complete the Interest Profiler in UtahFutures.

Statewide Hourly Wages

The first amount listed in this column is for “inexperienced” workers and reflects the average wage of the bottom third of the people working in that occupation in Utah. The second amount in the column is the “median” wage, representing the middle wage in the full range of wages paid to workers in that occupation in Utah. Source of data: Utah Department of Workforce Services.

Utah Job Openings

This column reflects the average number of annual openings (total of openings due to growth, plus net replacement, 2006-16) that are pro-

jected for the occupation, as well the total number of people in Utah projected to be employed in this occupation by the year 2018 (reflecting the size of that occupation in Utah).

Source of data: Utah Department of Workforce Services.

**As a total group, the occupations reflected in this series of charts by Area of Study, reflect the large majority of the jobs in which people are employed in Utah.*

Education/ Training Level

There are eleven levels of education and training defined by the U. S. Department of Labor to describe that level generally needed to qualify for employment. “Long-term” is training that lasts 12 months or more; “Moderate-term” lasts 1-12 months; and “Short-term” is under 0-1 month long. If you have questions about other terms used, talk to your counselor or consult the glossary in Utah-Futures. Source of Data: Utah Department of Workforce Services.

Other

Other interesting or important facts about the occupation; e.g., “Licensed” indicates that this is an occupation for which you must be licensed to practice in the state of Utah. (Full list of licensed occupations in Utah can be found at: <http://jobs.utah.gov/opencms/wi/pubs/licensedoccup>.)

Shaded Cells:

You may have noticed that some of the cells in “Wages,” “Job Openings” and “Training Level” are shaded. The shading indicates that this occupation meets the criterion for “High wage” (more than \$15.70/hour), “High Demand” (50 or more annual openings), and/or “High Skills” (training results in certification, licensure, or college degree), defined by the Utah State Office of Education.



INFORMATION TECHNOLOGY

Did you know?

Because our global economy is driven by technology, multimedia has become one of the most in-demand fields around.

Learn More >
www.utahcte.org/career/information-technology.php



Star Rating	Occupational Title & Description	Interest Code	Statewide Hourly Wages Inexperienced Median	Utah Job Outlook Openings Total Emp. 2018	Education/ Training Level	Other
*****	Computer and Information Systems Manager – Manages, plans, directs, and coordinates information system and computer programming activities.	ECl	\$33.41 \$46.44	110 Openings 3,061 Total	Experience + Bachelor's	
**	Computer Hardware Engineer – Analyzes data processing needs of clients to plan electronic data processing system.	IRC	\$30.70 \$44.19 (in Utah)	30 Openings 1,172 Total	Bachelor's Degree	Nontraditional for women
<div style="border: 1px solid black; padding: 10px; background-color: white;"> <p><i>Information Technology workers are needed in nearly every industry. The demand for technically skilled workers is growing in almost every industry, not just in those considered high-tech.</i></p> </div>						
*****	Computer Programmer – Develops and writes computer programs.	IC	\$20.36 \$33.53	160 Openings 7,496 Total	Bachelor's Degree	Nontraditional for women
*****	Computer Software Engineer, Applications – Analyzes data processing needs of clients to plan electronic data processing system.	IRC	\$28.26 \$39.98	280 Openings 7,651 Total	Bachelor's Degree	Nontraditional for women
*****	Computer Software Engineer, Systems Software – Analyzes data processing needs of clients to plan electronic data processing system.	ICR	\$23.15 \$37.41	180 Openings 5,085 Total	Bachelor's Degree	Nontraditional for women
****	Computer Support Specialist – Provides technical assistance to computer users and resolves computer software hardware problems.	RIC	\$13.04 \$18.53	440 Openings 10,049 Total	Associate Degree	

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****	Computer Systems Analyst – Develops procedures and coordinates the installation of computer programs and operating systems.	ICR	\$22.60 \$31.72	140 Openings 3,598 Total	Bachelor's Degree	Nontraditional for women
	Multi-Media Artist and Animator – Creates graphics for television and computer-generated media.	AI	\$14.47 \$21.25	30 Openings 756 Total	Bachelor's Degree	
****	Network and Computer Systems Administrator – Install, configure, and support an organization's network, and Internet system.	IRC	\$20.78 \$29.47	130 Openings 3,672 Total	Bachelor's Degree	Nontraditional for women
****	Network Systems and Data Communications Analyst – Researches, tests, evaluates, and recommends data communications hardware and software.	IC	\$21.75 \$31.19	160 Openings 3,023 Total	Bachelor's Degree	Nontraditional for women



A Sample of Related Postsecondary Programs of Study

- Animation
- Computer Information Systems
- Computer Networking
- eCommerce
- Media Design Technology
- Microsoft Network Engineer/Novell Network Engineer

The Pathways

- Database Development & Administration
 - Technical Support
 - Digital Media (Multimedia)
 - Network Systems
- Programming/Software Development
- Web Development & Administration

Additional Resources

- www.utahfcla.org
 FBLA www.utah-fbla-pbl.org/fbla
 SkillsUSA www.skillsusa-utah.org
 TSA www.utahtsa.org

IT students who want to participate in a leadership organization choose between these organizations, depending on what is available at their school.