

information & communications technologies careers

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IN SAN BERNARDINO & RIVERSIDE COUNTIES



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California's community colleges provide academic education as well as career and technical training to the communities they serve. They play an important role in preparing the workforce to meet the needs of businesses in the 21st century. With the help of local business leaders, educators at community colleges continually monitor local job market trends to ensure that courses offered stay relevant to the employer demands.

Labor market trends in the Inland Empire/Desert region indicate many opportunities for graduates of community college career technical programs. These job opportunities often offer starting wages that are competitive with those that require a higher level of education for employment, such as a Bachelor's degree. Depending on where you are in your career path, community colleges can assist with the transition from school to work or advancement to a more highly skilled job.

The Inland Empire/Desert community colleges offer a variety of career technical programs to meet the needs of students. Keep reading to learn about the growing fields and well-paying jobs in each industry sector, as well as the educational opportunities that await you in our local community colleges.





information & communications technologies careers//

FROM CONQUERING DISEASE TO IMPROVING EDUCATION - INFORMATION TECHNOLOGY IS KEY TO FINDING POSITIVE SOLUTIONS. THE INFORMATION AND COMMUNICATIONS TECHNOLOGIES EMPLOYERS OFFER A DYNAMIC ENTREPRENEURIAL ENVIRONMENT THAT HAS HAD A REVOLUTIONARY IMPACT ON THE ECONOMY AND SOCIETY. QUALIFIED IT PROFESSIONALS ARE IN HIGH DEMAND, WITH MORE CHOICES AND MORE CAREER OPPORTUNITIES.

community colleges

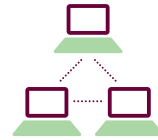
- Are located throughout San Bernardino and Riverside Counties
- Offer classes at flexible times
- Cost a fraction of private vocational school tuition and have financial assistance available

regional occupational programs (ROP)

- Are offered at your high school or at a nearby training center
- Allow you to earn college credits while still in high school
- Provide career guidance and career planning assistance



Web Developer
(p. 3)



Network Support
Specialist (p. 4)



Computer Support
Specialist (p. 5)



Computer
Programmer (p. 6)



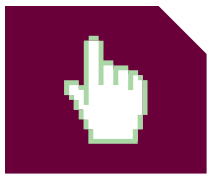
Telecommunications
Specialist (p. 7)



Database
Administrator (p. 8)



Software Applications
Developer (p. 9)



web developer

DO YOU HAVE AN ANALYTICAL SIDE AND A CREATIVE TOUCH?

What do they do?

Versed in programming and graphics, web developers design websites for clients. They use coding languages, such as HTML, to build sites while troubleshooting problems and using customer feedback to make changes. They continually work to stay abreast of the latest technology.

A good fit, if you're:

Artistic, undaunted by computer programming and focused.



32% 10 year State Job Growth



\$27.48/hr Median Wages



Skills & education you'll need

- Critical thinking and strong communication skills
- Self-discipline to manage projects and continually learn new technology
- Knowledge of math, programming and graphic design
- Bachelor's or associate degree



EARN A CERTIFICATE IN:

Multimedia / Website Design and Development / Web Administration

YOU PAY: \$276 – \$1,702

EARN AN ASSOCIATE DEGREE IN:

Multimedia / Website Design and Development

YOU PAY: \$2,760

AT THESE COLLEGES:

Chaffey, Crafton Hills, Moreno Valley, Mt San Jacinto, Norco, San Bernardino Valley, Victor Valley



network support specialist

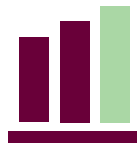
ARE YOU CALM UNDER PRESSURE AND DO YOU RELISH COMPLEX CHALLENGES?

What do they do?

Network support specialists analyze companies' needs to design, install and maintain their computer networks. They determine what kind of storage space and servers are needed, and install local area networks. They configure security settings and install wireless equipment, software and security firewalls.

A good fit, if you're:

Logical, computer savvy, and enjoy problem solving.



10% 10 year State Job Growth

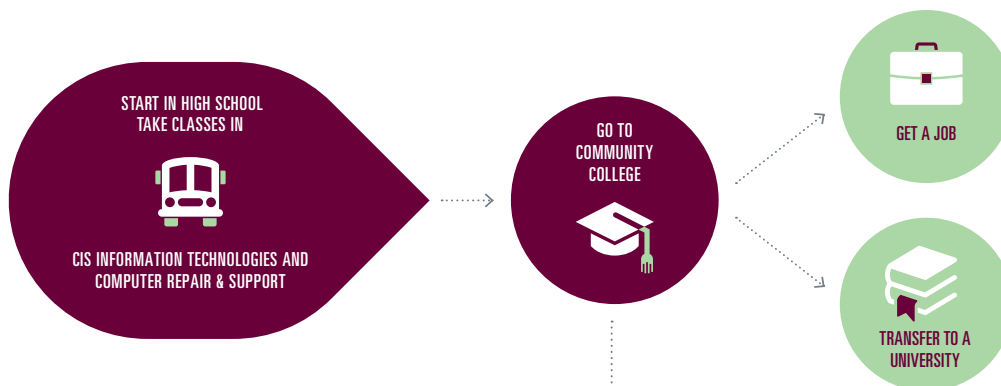


\$28.07/hr Median Wages



Skills & education you'll need

- Computer programming and critical thinking
- Knowledge of Cisco Systems, caching engines, Apple and Microsoft operating systems
- Strong communication skills to understand clients' needs
- Course completion in areas, such as math and computer science



EARN A CERTIFICATE IN:

Computer Information Systems / Computer Networking / Cisco Network Academy
YOU PAY: \$276-\$1,702

EARN AN ASSOCIATE DEGREE IN:

Computer Information Systems / Electronics
YOU PAY: \$2,760

AT THESE COLLEGES:

Barstow, Chaffey, Copper Mountain, Crafton Hills, College of the Desert, Mt San Jacinto, Palo Verde, San Bernardino Valley, Victor Valley



computer support specialist

ARE YOU GOOD WITH COMPUTERS AND ENJOY WORKING WITH PEOPLE?

What do they do?

Computer support specialists oversee the daily performance of computer systems. They troubleshoot and answer questions. They read manuals, install equipment and test for operating errors. Companies depend on them to help employees with their technology needs.

A good fit, if you're:

Patient, methodical and analytical.



25% 10 year State Job Growth

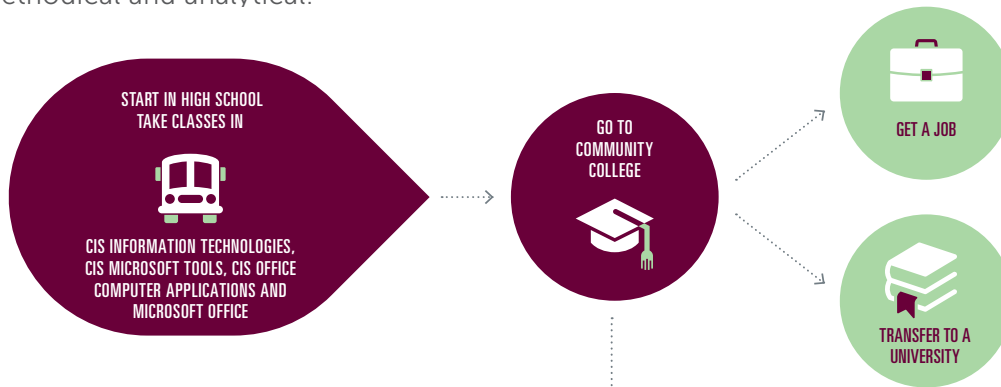


\$24.34/hr Median Wages



Skills & education you'll need

- Knowledge of backup software, installation software, and operating systems
- Customer service and patience in helping users with problems
- Ability to remain up-to-date on new technology



EARN A CERTIFICATE IN:

Computer Information Systems / Software Applications
YOU PAY: \$276-\$1,702

EARN AN ASSOCIATE DEGREE IN:

Computer Information Systems / Software Applications
YOU PAY: \$2,760

AT THESE COLLEGES:

Barstow, Chaffey, Copper Mountain, Crafton Hills, College of the Desert, Moreno Valley, Mt San Jacinto, Norco, Palo Verde, Riverside City, San Bernardino Valley, Victor Valley



computer programmer

CAN YOU SEE CREATIVE POSSIBILITIES WHERE OTHERS ARE DAUNTED BY RULES AND NUMBERS?

What do they do?

Computer programmers use code to tell computers to perform tasks, including storing and retrieving data. They use workflow charts to help rewrite and update software. They test programs for errors and efficiency. They analyze systems and work with users to resolve problems.

A good fit, if you're:

Good with numbers, problem solving, patterns and computers.



16% 10 year Regional Job Growth

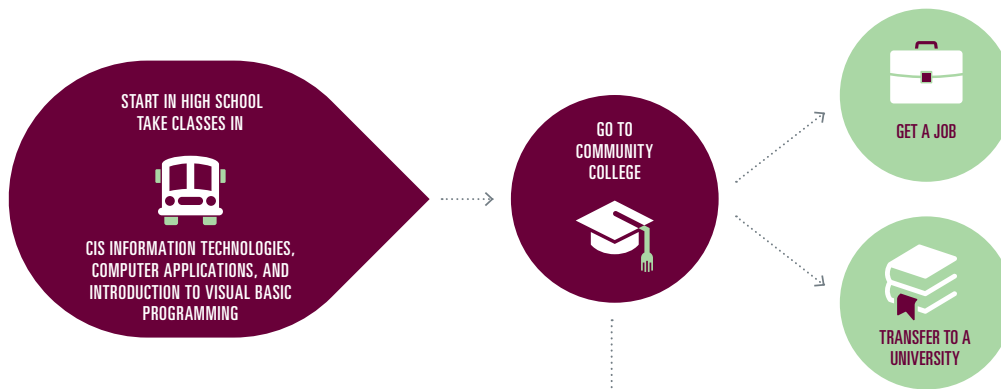


\$36.11/hr Median Wages



Skills & education you'll need

- Logic and critical thinking
- Knowledge of math, computers and programming codes
- Ability to combine knowledge of computers with problem solving skills to create cost-effective programs
- Bachelor's degree



EARN A CERTIFICATE IN:

Computer Programming / Software Applications
YOU PAY: \$276–\$1,702

EARN AN ASSOCIATE DEGREE IN:

Computer Programming / Software Applications
YOU PAY: \$2,760

AT THESE COLLEGES:

Moreno Valley, Mt San Jacinto, Norco, Palo Verde, Riverside City, San Bernardino Valley, Victor Valley

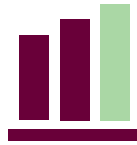


telecommu- nications specialist

ARE YOU JUST AS GOOD WITH PEOPLE AS YOU ARE WORKING WITH YOUR HANDS?

What do they do?

Telecommunications specialists install and repair central communications systems used in offices and corporate headquarters. They also service phone, cable, and internet systems for corporate and residential clients. They diagnose and repair equipment failures. Finally, they demonstrate the equipment and teach clients how to use it.



22% 10 year State Job Growth



\$30.22/hr
Median Wages

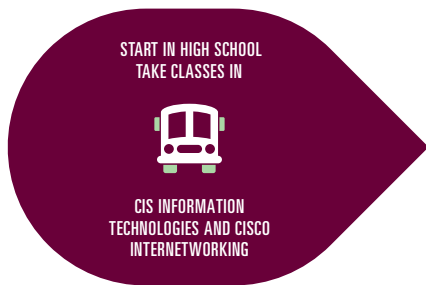


A good fit, if you're:

Adept at fixing electronics, a strong communicator and a patient teacher.

Skills & education you'll need

- Critical thinking
- Troubleshooting, engineering and electronics
- Familiarity with safety protocol and regulations
- Strong customer service and listening skills



EARN A CERTIFICATE IN:

Telecommunications Technology / Cisco Network Academy
YOU PAY: \$276-\$1,702

EARN AN ASSOCIATE DEGREE IN:

Telecommunications Technology / Electronics
YOU PAY: \$2,760

AT THESE COLLEGES:

Riverside City, San Bernardino Valley, Victor Valley



database administrator

ARE YOU METICULOUS ABOUT ORGANIZATION?
DO YOU LIKE TO WORK WITH COMPUTERS?

What do they do?

Database administrators help corporations store large volumes of information, such as financial or shipping records. They work with programmers to test software and are responsible for implementing security systems, advising companies about which programs to use, and establishing user access levels and training users.

A good fit, if you're:

Analytical, organized, and methodical.



34% 10 year Regional
Job Growth

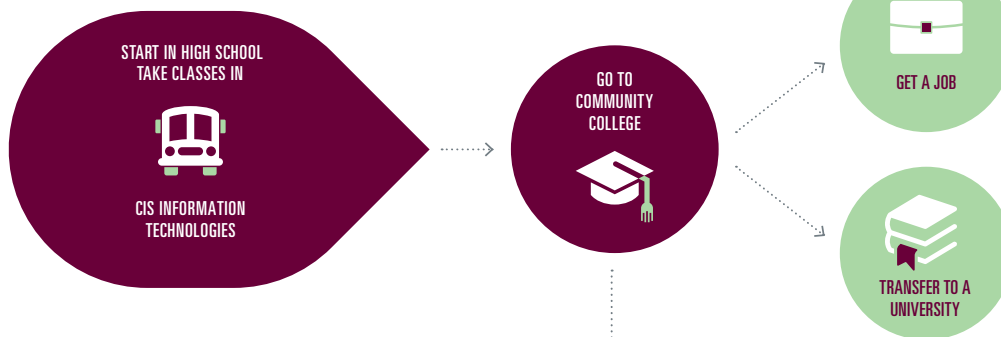


\$37.11/hr
Median Wages



Skills & education you'll need

- Knowledge of backup archival software, database management and mapping software, and metadata
- Critical thinking and attention to detail
- Bachelor's degree



EARN A CERTIFICATE IN:

Database Design and Administration / Information Technology, General
YOU PAY: \$276-\$1,702

EARN AN ASSOCIATE DEGREE IN:

Computer Information Systems
YOU PAY: \$2,760

AT THESE COLLEGES:

Barstow, Chaffey, Copper Mountain, Crafton Hills, College of the Desert, Mt San Jacinto, Palo Verde, Riverside City, San Bernardino Valley, Victor Valley



software applications developer

ARE YOU CREATIVE, ANALYTICAL AND GOOD WITH COMPUTERS?

What do they do?

Software application developers design the programs that tell computers what to do. They study user needs and design customized software solutions for clients. Working individually or with engineers, they write, modify and test software.

A good fit, if you're:

Systematic and methodical, good with computers.



28% 10 year State Job Growth

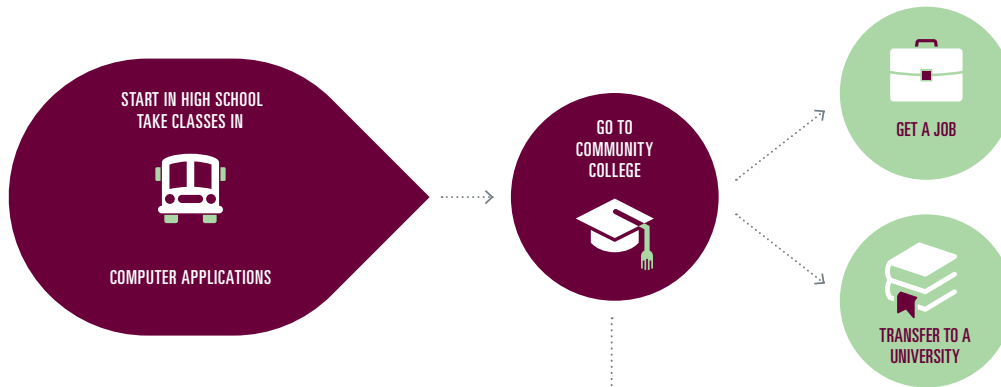


\$45.21/hr Median Wages



Skills & education you'll need

- Critical thinking and strong leadership
- Knowledge of programming and math
- Broad understanding of computer operating systems and code languages
- Ability to work with teams or as team managers



EARN A CERTIFICATE IN:

Software Applications / Computer Programming
YOU PAY: \$276-\$1,702

EARN AN ASSOCIATE DEGREE IN:

Software Applications / Computer Programming
YOU PAY: \$2,760

AT THESE COLLEGES:

Moreno Valley, Mt San Jacinto, Norco, Palo Verde, Riverside City, San Bernardino Valley, Victor Valley

TIPS for SUCCESS

TIP No. 1

know
**your
style.**

WHAT'S YOUR FAVORITE WAY TO LEARN AND WHY IS THIS IMPORTANT?

TIP No. 4

read,
read,
read.

IT'S A FACT. READING MAKES YOU SMARTER.

TIP No. 2

make
**math
matter.**

THE MORE MATH YOU TAKE, THE MORE MONEY YOU'LL MAKE.

TIP No. 5

**keep
your
focus.**

STICK TO ONE THING AT A TIME & YOU'LL GET MORE DONE.

TIP No. 3

get the
study
habit.

DON'T WAIT 'TIL THE LAST MINUTE TO COMPLETE ASSIGNMENTS.

TIP No. 6

be
money
wise.

BE ALERT. MAKE SURE YOU KNOW BEFORE YOU OWE.

RESOURCES

- » *America's Job Center of California*
caljobs.ca.gov
- » *California Career Café*
cacareercafe.com
- » *California Community Colleges Chancellor's Office*
californiacolleges.edu
- » *Riverside County Job Search Site*
rivcojobs.com
- » *San Bernardino County Job Search Site*
csb-win.org
- » *Salary Surfer*
salarysurfer.cccco.edu
- » *Who Do U Want 2B? The 15 Career Pathways*
whodouwant2b.com

community colleges

Barstow College

760 252 2411
barstow.edu

Crafton Hills College

909 794 2161
craftonhills.edu

Palo Verde College

760 921 5500
paloverde.edu

Chaffey College

909 652 6000
chaffey.edu

Moreno Valley College

951 571 6100
mvc.edu

Riverside City College

951 222 8000
rcc.edu

College of the Desert

760 346 8041
collegeofthedesert.edu

Mt. San Jacinto College

951 487 6752
msjc.edu

San Bernardino Valley College

909 384 4400
valleycollege.edu

Copper Mountain College

760 366 3791
cmccd.edu

Norco College

951 372 7000
norcollege.edu

Victor Valley College

760 245 4271
vvc.edu

regional occupational centers & programs

Baldy View ROP

909 980 6490
baldyviewrop.com

Riverside County Office of Education CTE/ROP

951 826 6648
rcoe.us/career-technical-
education/cterop

San Bernardino County ROP

909 252 4550
rop.cc

Colton-Redlands-Yucaipa ROP

909 793 3115
cryrop.org



CALIFORNIA COMMUNITY COLLEGES

Doing What MATTERS™

FOR JOBS AND THE ECONOMY

About Doing What Matters for Jobs & the Economy

Doing What Matters for Jobs and the Economy is an initiative of the California Community Colleges Chancellor's Office. The goals of Doing What Matters for Jobs and the Economy are to supply in-demand skills for employers, create relevant career pathways and stackable credentials, promote student success and get Californians into open jobs. For more information visit www.doingwhatmatters.cccco.edu

This project was funded fully or in part by Carl D. Perkins CTE Act of 2006 grant no. 14-150-006-ctel:14-150-006-awarded to Riverside Community College District and administered by the California Community Colleges Chancellor's Office. The Riverside Community College District complies with all federal and state rules and regulations and does not discriminate on the basis of ethnic group identification, national origin, religion, age, gender, gender identity, gender expression, race, color, ancestry, genetic information, sexual orientation, physical or mental disability, or any characteristic listed or defined in Section 11135 of the Government Code or any characteristic that is contained in the prohibition of hate crimes set forth in subdivision (1) of Section 422.6 of the California Penal Code, or any other status protected by law. This holds true for all students who are interested in participating in education programs, including career and technical education programs, and/or extracurricular school activities. Limited English speaking skills will not be a barrier to admission or participation in any programs. Harassment of any employee or student with regard to ethnic group identification, national origin, religion, age, gender, gender identity, gender expression, race, color, ancestry, genetic information, sexual orientation, physical or mental disability, or any characteristic listed or defined in Section 11135 of the Government Code or any characteristic that is contained in the prohibition of hate crimes set forth in subdivision (1) of Section 422.6 of the California Penal Code, or any other status protected by law is strictly prohibited. Inquiries regarding compliance, and/or grievance procedures may be directed to the District's Title IX Officer/Section 504/ADA Coordinator, Ms. Chani Beeman, 450 E. Alessandro Blvd., Riverside, CA 92508 (951) 222-8039. Alternate formats for this material are available to individuals requiring disability accommodation. Please contact Julie Pehkonen or the office of Diversity, Equity and Compliance at (951) 222-8039.