

LEARN MORE. EARN MORE.

# CAREER EDUCATION GUIDE 2023-2024

COMMUNITY COLLEGES OF SAN DIEGO COUNTY





# DEAR EDUCATORS AND COUNSELORS

## A MESSAGE FROM THE SAN DIEGO AND IMPERIAL COUNTIES REGIONAL STRONG WORKFORCE PROGRAM:

Preparing students to be college and career ready gives you the opportunity to help students identify their personal interests and values as they relate to career choices. Students need assistance in their career development journey (self-awareness, career awareness, career exploration, career preparation, career training) so they can make informed postsecondary and career decisions. Our hope is that you will use this Career Education Guide to help students align their interests and values with career pathways that will lead them to careers in high-wage, in-demand industry sectors. Students may already be interested in an industry sector or career pathway and the guide can give them information about the education and skills necessary to be successful.

Within the guide are embedded references to the RIASEC Holland Codes, or six interest areas. The abbreviation RIASEC refers to:

**(R) Realistic**

**(I) Investigative**

**(A) Artistic**

**(S) Social**

**(E) Enterprising**

**(C) Conventional**



We understand there are many career assessments available in a practitioner's toolbox. Since many career assessments organize by Holland Codes, we have used them in the guide to designate which interest categories correlate with each industry sector. As any skilled practitioner knows, these codes are not to be used in isolation but rather in consultation with a qualified counselor who can assist in interpreting career assessment results and take the time to understand a student's unique circumstances and needs.

In the back of the guide are helpful resources you can use to access free career exploration tools as well as career assessments. Understanding a student's interests will aid you in helping to plan a student's coursework to complete career pathways offered by your site or district. There is also a link to the San Diego and Imperial Counties Community Colleges Career Education website, [careered.org](http://careered.org), where information about training for in-demand careers can be found to help students with their postsecondary education plans.



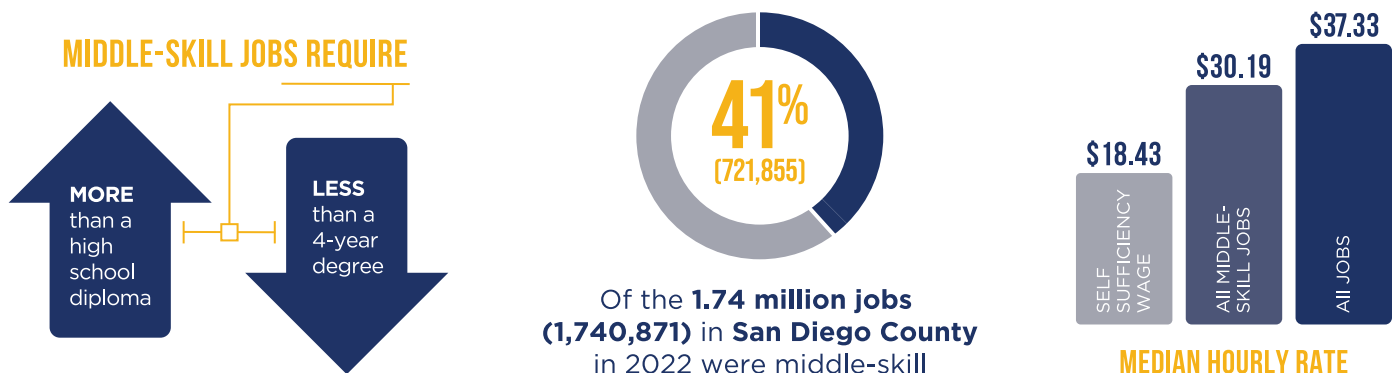
# MIDDLE-SKILL JOBS DRIVE THE ECONOMY



Businesses need more qualified candidates to fill good-paying middle-skill positions. Career Education at the Community Colleges in San Diego & Imperial Counties holds the key to unlock these growing, in-demand jobs.

## THE OPPORTUNITY

Middle-skill jobs are large and growing—and these jobs pay well.



## THE REASON

Career Education gives students a wide variety of program choices at multiple campuses—at a fraction of the cost.

## OVER 1,000 PROGRAMS (DEGREES AND CERTIFICATES) AND 10 COMMUNITY COLLEGES

- |                             |   |
|-----------------------------|---|
| • MiraCosta College         | • Cuyamaca College                          |
| • Palomar College           | • San Diego City College                    |
| • San Diego Miramar College | • San Diego College of Continuing Education |
| • Grossmont College         | • Southwestern College                      |
| • San Diego Mesa College    | • Imperial Valley College                   |

**\$46**  
per credit  
**Community Colleges**  
are the best value.



## THE JOBS

Career Education can quickly launch you into these careers.

**66%**

of graduates  
**ARE EMPLOYED  
ONE YEAR AFTER**  
finishing their program

### ADVANCE YOUR CAREER BY



BUILDING  
YOUR SKILLS



EARNING A  
CERTIFICATE



OBTAINING AN  
ASSOCIATE DEGREE

## IN-DEMAND SECTORS

- Advanced Manufacturing
- Advanced Transportation & Logistics
- Agriculture, Water, & Environmental Technologies
- Business & Entrepreneurship
- Education & Human Development
- Energy, Construction, & Utilities
- Retail, Hospitality, & Tourism
- Health
- Information & Communication Technologies (ICT) & Digital Media
- Life Sciences & Biotechnology
- Public Safety & Government

## GET CONNECTED

STUDENTS

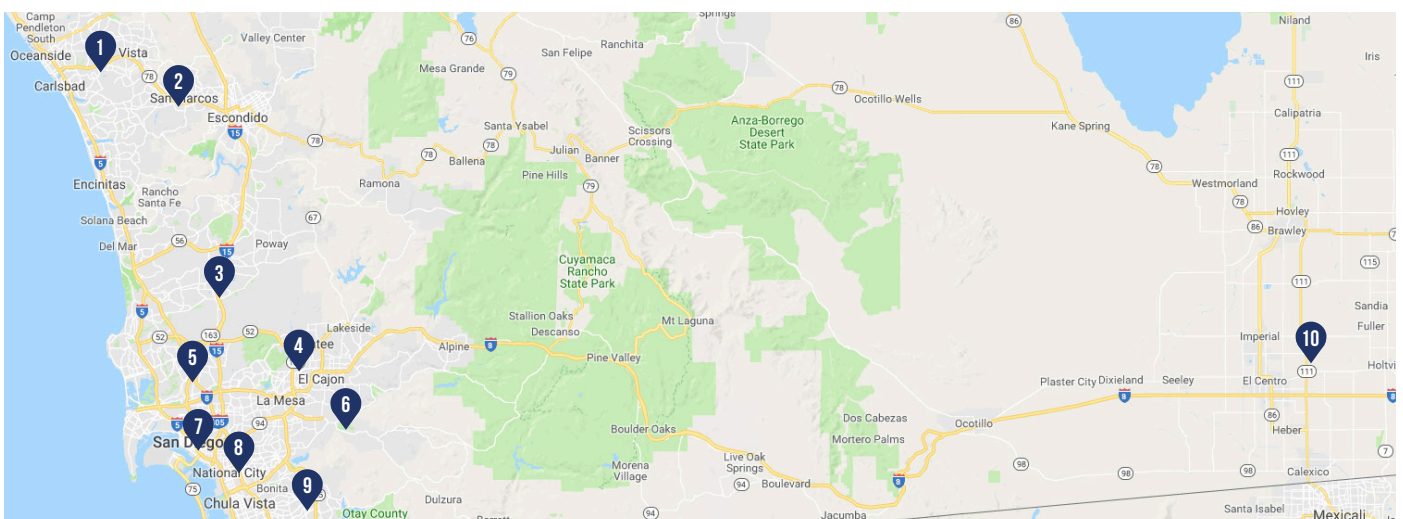


### CAREER EDUCATION

TRAINING  
WORK EXPERIENCE  
JOB PLACEMENT



EMPLOYERS



# ADVANCED MANUFACTURING

Thanks to advancements in automation and Industry 4.0 technologies, modern manufacturing has evolved into a high-tech, clean, and safe environment. To meet today's needs and tomorrow's challenges, high-tech manufacturing (or Advanced Manufacturing) jobs continue to grow, especially in the areas of additive manufacturing, lean manufacturing, robotics and automation, industrial internet of things, digital transformation, predictive maintenance, precision machining and engineering.

Additionally, the Advanced Manufacturing sector values diversity and is determined to create an environment where individuals from all backgrounds can thrive. Women, in particular, perform an integral role to the industry's future success, bringing unique perspectives and skills that contribute to its ongoing transformation and competitiveness in the global market. Opportunities for advancement in Advanced Manufacturing are plentiful in product design, process engineering, operations, maintenance, and lab work. Professionals who are adaptable, innovative, and capable of applying scientific and technical principles are well-positioned for rewarding and dynamic careers.



## Sample Employers:

Cymer Incorporated	Northrop Grumman Innovation Systems
Dexcom, Inc.	Quality Controlled Manufacturing, Inc.
General Atomics	SeaSpine, Inc.
GKN Aerospace	Solar Turbines, Inc.
Hunter Industries	Taylor Guitars

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$99,872**

average earnings  
per job



**93,372**

people employed



**8%**

of California's Advanced  
Manufacturing employment  
is in San Diego



**0% (-444)**

5-year projected  
job growth^



**3,254**

businesses



**8%**

of California's Advanced  
Manufacturing businesses  
are in San Diego

\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.

^ Please note that job growth/decline does not equal labor market demand; demand is represented by annual job openings



## ADVANCED MANUFACTURING | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with entry annual salaries of at least \$37,440 (i.e., living wage) and a labor market demand of at least 50 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Aircraft Structure, Surfaces, Rigging, and Systems Assemblers*	\$24 (\$50K)	●					●
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders*	\$18 (\$37K)	●	●				●
Computer Numerically Controlled Tool Operators*	\$18 (\$37K)	●					●
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic*	\$18 (\$37K)	●					●
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers* +	\$18 (\$37K)						
First-Line Supervisors of Production and Operating Workers*	\$25 (\$52K)	●				●	●
Industrial Machinery Mechanics*	\$24 (\$50K)	●	●				●
Machinists*	\$20 (\$42K)	●	●				●
Maintenance and Repair Workers, General*	\$18 (\$37K)	●	●				●
Mixing and Blending Machine Setters, Operators, and Tenders*	\$19 (\$40K)	●	●				●
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders*	\$18 (\$37K)	●	●				●
Sheet Metal Workers	\$24 (\$50K)	●					
Structural Iron and Steel Workers*	\$23 (\$48K)	●	●				●
Structural Metal Fabricators and Fitters*	\$23 (\$48K)	●					●
Welders, Cutters, Solderers, and Brazers*	\$22 (\$46K)	●	●				●
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD							
Aircraft Mechanics and Service Technicians*	\$30 (\$62K)	●	●				●
Computer, Automated Teller, and Office Machine Repairers*	\$18 (\$37K)	●	●				●
Electrical and Electronics Repairers, Commercial and Industrial Equipment*	\$27 (\$56K)	●	●				●
ASSOCIATE DEGREE							
Aerospace Engineering and Operations Technologists and Technicians*	\$27 (\$56K)	●	●				●
Civil Engineering Technologists and Technicians	\$31 (\$64K)	●	●				●
Electrical and Electronic Engineering Technologists and Technicians*	\$29 (\$60K)	●	●				●
Engineering Technologists and Technicians, Except Drafters, All Other* +	\$29 (\$60K)						
Industrial Engineering Technologists and Technicians*	\$24 (\$50K)	●	●				●
Mechanical Engineering Technologists and Technicians*	\$23 (\$48K)	●	●				
BACHELOR'S DEGREE OR HIGHER							
Aerospace Engineers*	\$43 (\$89K)	●	●				
Civil Engineers*	\$38 (\$79K)	●	●				●
Computer Hardware Engineers	\$64 (\$133K)	●	●				●
Electrical Engineers*	\$42 (\$87K)	●	●				
Electronics Engineers, Except Computer Engineers, All Other +	\$44 (\$92K)						
Industrial Engineers	\$40 (\$83K)		●			●	●
Industrial Production Managers	\$45 (\$94K)					●	●
Mechanical Engineers*	\$37 (\$77K)	●	●				●
Purchasing Managers*	\$51 (\$106K)					●	●

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.





# ADVANCED TRANSPORTATION & LOGISTICS

The Advanced Transportation & Logistics sector ensures that people and things get to the right place, at the right time, and for the right price. Using cutting-edge technologies and processes, people in this sector are called on to move people and products from point A to point B by air, land, and sea. It takes people with all different talents, skills, backgrounds, and training to keep things moving. Areas of projected market growth include the use of Global Positioning Systems (GPS), Geographic Information Systems (GIS), Radio Frequency Identification (RFID), developments in rocket technology, drones, hydrogen fuel-cell technology, autonomy, connected vehicles, and electric vehicles. The industry offers diverse job opportunities, spanning from technical to managerial roles.



## Sample Employers:

Amazon.com, Inc.	Port of San Diego
BAE Systems, Inc.	R.L. Jones Customhouse Brokers Inc.
Collins Aerospace	San Diego Metropolitan Transit System
General Dynamics NASSCO	Tesla, Inc.
Northrup Grumman	

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$64,743**

average earnings  
per job



**68,044**

people employed



**6%**

of California's Advanced  
Transportation and Logistics  
employment is in San Diego



**9% (6,340)**

5-year projected  
job growth



**4,709**

businesses



**7%**

of California's Advanced  
Transportation and Logistics  
businesses are in San Diego

\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.



## ADVANCED TRANSPORTATION & LOGISTICS | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with entry annual salaries of at least \$37,440 and a labor market demand of at least 50 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Automotive Body and Related Repairers*	\$20 (\$42K)	●					
Bus and Truck Mechanics and Diesel Engine Specialists*	\$24 (\$50K)	●					●
Bus Drivers, Transit and Intercity*	\$20 (\$42K)	●			●		
Cargo and Freight Agents +	\$18 (\$37K)						
Commercial Pilots*	\$38 (\$79K)	●	●			●	
First-Line Supervisors of Mechanics, Installers, and Repairers*	\$30 (\$62K)	●				●	●
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors* +	\$21 (\$44K)						
Flight Attendants*	\$27 (\$56K)				●	●	●
Mobile Heavy Equipment Mechanics, Except Engines*	\$26 (\$54K)	●					●
Production, Planning, and Expediting Clerks	\$22 (\$46K)					●	●
Transportation, Storage, and Distribution Managers*	\$34 (\$71K)	●				●	●
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD							
Captains, Mates, and Pilots of Water Vessels*	\$28 (\$58K)	●				●	●
Heavy and Tractor-Trailer Truck Drivers*	\$20 (\$42K)	●					●
ASSOCIATE DEGREE							
Air Traffic Controllers*	\$64 (\$133K)					●	●
Avionics Technicians*	\$38 (\$79K)	●	●				●
BACHELOR'S DEGREE OR HIGHER							
Airline Pilots, Copilots, and Flight Engineers*	\$67 (\$139K)	●	●				●
Buyers and Purchasing Agents* +	\$29 (\$60K)						
Logisticians	\$34 (\$71K)					●	●

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# AGRICULTURE, WATER, & ENVIRONMENTAL TECHNOLOGIES

As California's population continues to grow, the state's agricultural, water, and environmental resources are more important than ever. Agriculture alone is a \$49 billion-dollar industry in California, making the state the most prolific agricultural producer in the U.S. To meet the growing demand for these resources, companies are rapidly adopting new technologies and sustainable practices, and need workers to drive improvements in the sector. Careers in this sector range from turf management at municipal golf courses to research in biological sciences. Employees may work in a lab, on a farm, ranch, dairy, orchard, greenhouse, plant nursery, or in a veterinary office.



## Sample Employers:

Altman Specialty Plants, LLC.  
BrightView Holdings, Inc.  
Cargill, Incorporated.  
Carlsbad Desalination Plant  
City of San Diego - Environmental Services

Cleantech San Diego  
The Davey Tree Expert Company  
ECOR Global  
Helix Water District  
Moon Valley Nurseries

Padre Dam Water District  
San Diego County Water Authority  
San Diego Public Utilities Department

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$63,245**

average earnings  
per job



**27,612**

people employed



**4%**

of California's Agriculture,  
Water, and Environmental  
Technology employment  
is in San Diego



**8% (2,091)**

5-year projected  
job growth



**1,760**

businesses



**6%**

of California's Agriculture,  
Water, and Environmental  
Technology businesses  
are in San Diego

\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.





## AGRICULTURE, WATER, & ENVIRONMENTAL TECHNOLOGIES | JOBS & WAGES

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HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Earth Drillers, Except Oil and Gas*	\$21 (\$44K)	●	●				●
Excavating and Loading Machine and Dragline Operators, Surface Mining*	\$25 (\$52K)	●					
Explosives Workers, Ordnance Handling Experts, and Blasters*	\$26 (\$54K)	●	●				●
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers*	\$18 (\$37K)	●				●	●
Logging Equipment Operators*	\$19 (\$40K)	●	●				●
Pest Control Workers	\$18 (\$37K)	●					●
Pesticide Handlers, Sprayers, and Applicators, Vegetation	\$19 (\$40K)	●					●
Stationary Engineers and Boiler Operators*	\$19 (\$40K)	●	●				●
Tree Trimmers and Pruners*	\$22 (\$46K)	●					
Water and Wastewater Treatment Plant and System Operators*	\$26 (\$54K)	●					●
ASSOCIATE DEGREE							
Agricultural Technicians*	\$18 (\$37K)	●	●				●
Environmental Engineering Technologists and Technicians	\$27 (\$56K)	●	●				●
Environmental Science and Protection Technicians, Including Health*	\$19 (\$40K)	●	●				●
Food Science Technicians*	\$19 (\$40K)	●	●				●
Geological Technicians, Except Hydrologic Technicians*	\$21 (\$44K)	●	●				●
Veterinary Technologists and Technicians*	\$19 (\$40K)	●	●				
BACHELOR'S DEGREE OR HIGHER							
Agricultural Inspectors*	\$18 (\$37K)	●	●				●
Environmental Engineers	\$40 (\$83K)	●	●				●
Environmental Scientists and Specialists, Including Health	\$34 (\$71K)	●	●				●
Farm and Home Management Educators*	\$29 (\$60K)	●			●		●
Food Scientists and Technologists	\$34 (\$71K)	●	●				●
Foresters	\$24 (\$50K)	●	●			●	
Geoscientists, Except Hydrologists and Geographers	\$30 (\$62K)	●	●				
Hydrologists	\$36 (\$75K)	●	●				
Physical Scientists, All Other +	\$46 (\$96K)						
Soil and Plant Scientists*	\$26 (\$54K)	●	●				
Veterinarians*	\$36 (\$75K)	●	●				

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# BUSINESS & ENTREPRENEURSHIP

Every company, regardless of its industry or size, needs people to manage personnel, sell products, and account for finances. There is a high demand across various industries for professionals trained in business management, banking, marketing, and customer service. These skills are fundamental components of the global economy and are highly marketable. Professionals seeking to run their own businesses including independent contractors and digital platform workers will find that financial literacy, management, communication, and customer service skills are essential when it comes to entrepreneurial pursuits. Expertise in these areas provide a strong foundation for professional growth and success. The Business & Entrepreneurship sector is poised for continued growth and evolution driven by advances in technology, market globalization, and the expansion of banking and investment institutions around the world. Individuals with a wide range of versatile business skills are well positioned to obtain rewarding and diverse career opportunities.



## Sample of Local Associations, Chambers & Employer Resources:

California Women's Business Center  
Chambers of Commerce  
CONNECT San Diego  
Economic Development Councils

San Diego Regional Economic Development Corporation  
Small Business Development Center in San Diego & Imperial County (SBDC)  
U.S. Small Business Administration - San Diego District  
Veterans Business Outreach Center (VBOC)

## CAREER EDUCATION GUIDE



### SAN DIEGO FAST FACTS\*



**\$86,006**

average earnings  
per job



**322,159**

people employed



**9%**

of California's Business  
and Entrepreneurship  
employment is in San Diego



**8% (24,685)**

5-year projected  
job growth



**29,703**

businesses



**10%**

of California's Business and  
Entrepreneurship businesses  
are in San Diego



\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.



## BUSINESS & ENTREPRENEURSHIP | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with entry annual salaries of at least \$37,440 (i.e., living wage) and a labor market demand of at least 90 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Billing and Posting Clerks	\$19 (\$40K)				●	●	●
Claims Adjusters, Examiners, and Investigators	\$30 (\$62K)		●			●	●
Executive Secretaries and Executive Administrative Assistants*	\$30 (\$62K)					●	●
First-Line Supervisors of Office and Administrative Support Workers*	\$25 (\$52K)				●	●	●
Insurance Sales Agents	\$21 (\$44K)				●	●	●
Legal Secretaries and Administrative Assistants	\$25 (\$52K)					●	●
Loan Interviewers and Clerks*	\$18 (\$37K)					●	●
Payroll and Timekeeping Clerks	\$23 (\$48K)					●	●
Property, Real Estate, and Community Association Managers	\$18 (\$37K)					●	●
Real Estate Brokers	\$24 (\$50K)					●	●
Real Estate Sales Agents	\$20 (\$42K)					●	●
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	\$18 (\$37K)					●	●
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD							
Bookkeeping, Accounting, and Auditing Clerks	\$20 (\$42K)					●	●
Order Clerks*	\$18 (\$37K)				●	●	●
ASSOCIATE DEGREE							
Human Resources Assistants, Except Payroll and Timekeeping*	\$20 (\$42K)				●	●	●
BACHELOR'S DEGREE OR HIGHER							
Accountants and Auditors	\$31 (\$64K)		●			●	●
Administrative Services Managers*	\$33 (\$69K)					●	●
Buyers and Purchasing Agents* +	\$29 (\$60K)						
Chief Executives	\$53 (\$110K)					●	●
Compliance Officers*	\$30 (\$62K)				●	●	●
Cost Estimators	\$29 (\$60K)					●	●
Facilities Managers* +	\$36 (\$75K)						
Financial and Investment Analysts* +	\$37 (\$77K)						
Financial Managers	\$52 (\$108K)				●	●	●
Human Resources Managers*	\$51 (\$106K)				●	●	●
Human Resources Specialists	\$29 (\$60K)				●	●	●
Lawyers*	\$45 (\$94K)		●			●	
Loan Officers	\$21 (\$44K)				●	●	●
Management Analysts	\$34 (\$71K)		●		●	●	
Market Research Analysts and Marketing Specialists	\$26 (\$54K)		●			●	●
Marketing Managers*	\$52 (\$108K)					●	●
Personal Financial Advisors*	\$30 (\$62K)				●	●	●
Project Management Specialists+	\$37 (\$77K)						
Sales Managers	\$36 (\$75K)					●	●
Securities, Commodities, and Financial Services Sales Agents	\$23 (\$48K)				●	●	●
Training and Development Managers	\$46 (\$96K)				●	●	
Training and Development Specialists	\$25 (\$52K)			●	●		●

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.





# EDUCATION & HUMAN DEVELOPMENT

Education and Human Development include a wide range of disciplines and career pathways, including early care and education, preschool and childcare programs, TK (Transitional Kindergarten), elementary and secondary education, special education, educational administration, school psychology, adaptive physical education, speech and language therapy, occupational therapy, child and family advocacy, child life specialists, counseling and social work. Employment in the human services sector is broadly defined and multidisciplinary but has at its core a focus on human relationships, prevention and remediation of problems, and a commitment to improving overall quality of life.



## Sample Employers:

All Kids Academy Head Start, Inc.  
Community Colleges in San Diego County  
K12 School Districts in San Diego County  
KinderCare Learning Centers, LLC.  
La Petite Academy

San Diego State University  
University of California San Diego

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$40,233**

average earnings  
per job



**99,523**

people employed



**7%**

of California's Education  
and Human Development  
employment is in San Diego



**18% (18,150)**

5-year projected  
job growth



**28,334**

businesses



**5%**

of California's Education  
and Human Development  
businesses are in San Diego

\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.



## EDUCATION & HUMAN DEVELOPMENT | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$37,440 (i.e., living wage) and a labor market demand of at least 10 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

BACHELOR'S DEGREE OR HIGHER	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors*	\$30 (\$62K)			●	●	●	
Child, Family, and School Social Workers*	\$23 (\$48K)					●	●
Clinical and Counseling Psychologists	\$36 (\$75K)		●	●	●		
Community and Social Service Specialists, All Other* +	\$19 (\$40K)						
Counselors, All Other* +	\$18 (\$37K)						
Education Administrators, All Other* +	\$33 (\$69K)						
Education Administrators, Kindergarten through Secondary*	\$51 (\$106K)				●	●	●
Education Administrators, Postsecondary*	\$47 (\$98K)				●	●	●
Education and Childcare Administrators, Preschool and Daycare*	\$23 (\$48K)				●	●	●
Educational, Guidance, and Career Counselors and Advisors*	\$27 (\$56K)				●		
Elementary School Teachers, Except Special Education*	\$30 (\$62K)			●	●		●
Health Education Specialists*	\$22 (\$46K)				●	●	
Instructional Coordinators*	\$28 (\$58K)		●	●	●	●	
Librarians and Media Collections Specialists*	\$25 (\$52K)	●			●		●
Middle School Teachers, Except Special and Career/Technical Education*	\$34 (\$71K)			●	●		
Postsecondary Teachers* +	\$40 (\$83K)						
School Psychologists	\$39 (\$81K)		●		●		
Secondary School Teachers, Except Special and Career/Technical Education*	\$36 (\$75K)			●	●	●	
Special Education Teachers, Kindergarten and Elementary School* +	\$37 (\$77K)						
Special Education Teachers, Secondary School*	\$36 (\$75K)		●		●		
Substitute Teachers, Short-Term* +	\$18 (\$37K)						
Teachers and Instructors, All Other* +	\$28 (\$58K)						
Teaching Assistants, Postsecondary*	\$22 (\$46K)				●		●

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# ENERGY, CONSTRUCTION, & UTILITIES

The Energy, Construction, & Utilities sector is a diverse and critical part of the global economy. It encompasses the creation of physical structures, the production and distribution of energy, and the provision of essential utilities, all of which have significant impacts on society, the environment, and economic development. This sector is evolving to embrace sustainability and cleaner energy sources to address environmental concerns and meet future energy demands.



## Sample Employers:

AECOM San Diego  
Borrego Energy, LLC  
City of San Diego Public Utilities Department  
Clark Construction  
EDF Renewables North America

KB Home  
McCarthy Building Companies  
Parsons Corporation  
PulteGroup, Inc.  
Rick Engineering Co

SDG&E  
Sempra  
Shea Homes  
Turner Construction Company

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$89,639**

average earnings  
per job



**142,406**

people employed



**10%**

of California's Energy,  
Construction, and Utilities  
employment is in San Diego



**6% (8,662)**

5-year projected  
job growth



**10,786**

businesses



**10%**

of California's Energy,  
Construction, and Utilities  
businesses are in San Diego

\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.





## ENERGY, CONSTRUCTION, & UTILITIES | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$37,440 (i.e., living wage) and a labor market demand of at least 50 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

NO FORMAL EDUCATIONAL CREDENTIAL + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Cement Masons and Concrete Finishers*	\$23 (\$48K)	●				●	
Drywall and Ceiling Tile Installers*	\$24 (\$50K)	●					●
Floor Layers, Except Carpet, Wood, and Hard Tiles*	\$18 (\$37K)	●					●
Painters, Construction and Maintenance* +	\$19 (\$40K)						
Pipelayers	\$24 (\$50K)	●					
Plasterers and Stucco Masons* +	\$24 (\$50K)						
Roofers*	\$22 (\$46K)	●					●
Tile and Stone Setters* +	\$20 (\$42K)						
HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING							
Carpenters*	\$21 (\$44K)	●	●				●
Construction and Building Inspectors*	\$27 (\$56K)	●	●				●
Control and Valve Installers and Repairers, Except Mechanical Door*	\$30 (\$62K)	●	●				●
Electricians	\$23 (\$48K)	●	●				●
First-Line Supervisors of Construction Trades and Extraction Workers	\$32 (\$67K)	●				●	●
Glaziers	\$22 (\$46K)	●					●
Hazardous Materials Removal Workers	\$19 (\$40K)	●					●
Installation, Maintenance, and Repair Workers, All Other* +	\$18 (\$37K)						
Operating Engineers and Other Construction Equipment Operators	\$30 (\$62K)	●	●				●
Plumbers, Pipefitters, and Steamfitters	\$23 (\$48K)	●	●				●
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel +	\$23 (\$48K)						
Security and Fire Alarm Systems Installers*	\$22 (\$46K)	●					●
Septic Tank Servicers and Sewer Pipe Cleaners*	\$18 (\$37K)	●					
Solar Photovoltaic Installers	\$22 (\$46K)	●					●
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD							
Heating, Air Conditioning, and Refrigeration Mechanics and Installers*	\$22 (\$46K)	●	●				●
ASSOCIATE DEGREE							
Architectural and Civil Drafters*	\$27 (\$56K)	●		●			●
Electrical and Electronic Engineering Technologists and Technicians*	\$29 (\$60K)	●	●				●
BACHELOR'S DEGREE OR HIGHER							
Architects, Except Landscape and Naval	\$34 (\$71K)		●	●			
Architectural and Engineering Managers	\$68 (\$141K)	●	●			●	
Construction Managers*	\$24 (\$50K)	●				●	●

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# HEALTH

The Health sector is projected to grow due to an aging population, particularly in California where it is a rapidly expanding sector employing 1.7 million professionals. Contrary to expectation, doctors and nurses constitute less than 40% of healthcare workers, with allied health professionals comprising 60%. Diverse career options exist, spanning 30+ occupations such as nursing, research, diagnostics, support, physical therapy, and health informatics. Opportunities thrive across all segments, especially for roles like Certified Nursing Assistants, Home Health Aides, Licensed Vocational Nurses, and Registered Nurses. These opportunities lead to impactful careers and job security even during economic downturns.



## Sample Employers:

AccentCare, Inc.  
Family Health Centers of San Diego  
Kaiser Permanente Mental Health Systems  
Rady Children's Hospital  
San Ysidro Health

Scripps Health System  
Sharp Health System  
St. Paul's Senior Services  
UC San Diego Health System

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$85,840**

average earnings  
per job



**151,182**

people employed



**9%**

of California's  
Health employment  
is in San Diego



**14% (20,867)**

5-year projected  
job growth



**8,909**

businesses



**9%**

of California's  
Health businesses  
are in San Diego

### DID YOU KNOW?

San Diego Mesa College offers a Bachelor's Degree in Health Information Management. **Learn more here:**



\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.



## HEALTH | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$37,440 (i.e., living wage)—with some exceptions—and a labor market demand of at least 50 annual job openings are included in this list. Any job with “All Other” in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Community Health Workers*	\$19 (\$40K)		●		●	●	
Hearing Aid Specialists*	\$20 (\$42K)	●	●		●		
Opticians, Dispensing*	\$21 (\$44K)	●			●	●	●
Pharmacy Technicians*	\$19 (\$40K)	●					●
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD							
Dental Assistants*	\$19 (\$40K)	●			●		●
Licensed Practical and Licensed Vocational Nurses*	\$29 (\$60K)	●			●		
Medical Assistants*	\$18 (\$37K)	●			●		●
Medical Records Specialists*+	\$18 (\$37K)						
Nursing Assistants*	\$18 (\$37K)	●			●		●
Paramedics*+	\$24 (\$50K)						
Phlebotomists*	\$19 (\$40K)	●	●		●		●
Psychiatric Technicians*	\$20 (\$42K)	●			●	●	
Surgical Assistants*	\$22 (\$46K)	●			●		●
Surgical Technologists*	\$29 (\$60K)	●			●		●
ASSOCIATE DEGREE							
Dental Hygienists*	\$50 (\$104K)	●			●		●
Diagnostic Medical Sonographers*	\$47 (\$98K)	●	●		●		
Occupational Therapy Assistants*	\$38 (\$79K)	●			●		
Physical Therapist Assistants*	\$33 (\$69K)	●	●		●		
Radiologic Technologists and Technicians*	\$38 (\$79K)	●			●		●
Respiratory Therapists*	\$36 (\$75K)	●	●		●		
BACHELOR'S DEGREE OR HIGHER							
Clinical Laboratory Technologists and Technicians*+	\$22 (\$46K)						
Dentists, General*	\$44 (\$92K)	●	●		●		
Dietitians and Nutritionists*	\$33 (\$69K)		●		●		
Family Medicine Physicians*	\$69 (\$144K)		●		●		
Healthcare Social Workers*	\$28 (\$58K)		●		●		
Medical and Health Services Managers	\$38 (\$79K)				●	●	●
Mental Health and Substance Abuse Social Workers*	\$23 (\$48K)		●	●	●		
Nurse Practitioners*	\$61 (\$127K)	●	●		●		
Occupational Health and Safety Specialists*	\$35 (\$73K)		●				●
Occupational Therapists*	\$46 (\$96K)		●		●		
Pharmacists*	\$65 (\$135K)		●		●		●
Physical Therapists*	\$45 (\$94K)	●	●		●		
Physician Assistants*	\$60 (\$125K)	●	●		●		
Registered Nurses*	\$47 (\$98K)		●		●		●
Social and Community Service Managers*	\$28 (\$58K)				●	●	
Speech-Language Pathologists*	\$39 (\$81K)		●	●	●		

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# INFORMATION & COMMUNICATION TECHNOLOGIES (ICT) & DIGITAL MEDIA

As companies continue to use new and emerging technologies, the demand for technologically savvy and creative professionals will continue to grow. Jobs in the ICT and Digital Media sector tend to be constantly changing and require a combination of imaginative and hands-on skills. Professionals in this sector must be able to work both independently and collaboratively.



ICT and Digital Media students learn about the design, development, maintenance, and management of hardware, software, multimedia, and systems integration services. Because of the central role that technology plays in all industries, ICT professionals are and will continue to be in great demand in every sector of the economy. Specific areas of future growth are likely to surface in cloud computing, collection and storage of big data, and information security (for example, cybersecurity).

## Sample Employers:

Crown Castle	Sony Electronics, Inc.
Cubic Corporation	Teradata Corporation
Intuit Inc.	United Support Services, Inc.
Naval Information Warfare Systems Command (NAVWAR)	ViaSat, Inc.
Qualcomm, Inc.	

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$136,534**

average earnings  
per job



**62,269**

people employed



**6%**

of California's ICT and  
Digital Media employment  
is in San Diego



**5% (3,150)**

5-year projected  
job growth



**4,594**

businesses



**7%**

of California's ICT and  
Digital Media businesses  
are in San Diego

## DID YOU KNOW?

San Diego City College offers a Bachelor's Degree in Cyber Defense and Analysis. **Learn more here:**



\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.





## ICT & DIGITAL MEDIA | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$37,440 (i.e., living wage) and a labor market demand of at least 50 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Electrical Power-Line Installers and Repairers*	\$33 (\$69K)	●	●				●
Media and Communication Workers, All Other*+	\$27 (\$56K)						
Surveying and Mapping Technicians*	\$26 (\$54K)	●	●				●
Telecommunications Line Installers and Repairers*	\$29 (\$60K)	●				●	
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD							
Audio and Video Technicians*	\$20 (\$42K)	●	●				●
Computer User Support Specialists	\$23 (\$48K)	●	●				●
Telecommunications Equipment Installers and Repairers, Except Line Installers*	\$27 (\$56K)	●	●				●
ASSOCIATE DEGREE							
Computer Network Support Specialists	\$27 (\$56K)	●				●	●
BACHELOR'S DEGREE OR HIGHER							
Computer and Information Research Scientists	\$53 (\$110K)	●	●	●			●
Computer and Information Systems Managers	\$65 (\$135K)		●			●	●
Computer Network Architects	\$40 (\$83K)		●			●	●
Computer Occupations, All Other*+	\$35 (\$73K)						
Computer Programmers	\$50 (\$104K)		●				●
Computer Systems Analysts	\$40 (\$83K)	●	●				●
Data Scientists+	\$44 (\$92K)						
Database Administrators	\$37 (\$77K)		●				●
Editors*	\$24 (\$50K)			●		●	●
Film and Video Editors*	\$21 (\$44K)		●	●		●	
Graphic Designers*	\$20 (\$42K)	●		●		●	
Information Security Analysts	\$41 (\$85K)	●	●				●
Network and Computer Systems Administrators	\$39 (\$81K)	●	●				●
Operations Research Analysts*	\$32 (\$67K)		●			●	●
Producers and Directors*	\$26 (\$54K)			●	●	●	●
Public Relations Specialists*	\$24 (\$50K)			●	●	●	
Software Developers+	\$52 (\$108K)						
Software Quality Assurance Analysts and Testers*	\$40 (\$83K)	●	●				●
Special Effects Artists and Animators*	\$21 (\$44K)		●	●			
Statisticians	\$42 (\$87K)		●				●
Technical Writers*	\$36 (\$75K)		●	●			●
Web and Digital Interface Designers*+	\$26 (\$54K)						
Web Developers*	\$25 (\$52K)	●	●				●

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# LIFE SCIENCES & BIOTECHNOLOGY

Life Sciences & Biotechnology is a sector comprising professional, scientific and technical industries. Life sciences are the study of living organisms and life processes; using living cells to produce something else. Biotechnology is a subsector of the life sciences industry, and encompasses processes like growing food, making medicines and developing vaccines. Biotech companies use biology to develop new products, methods and organisms intended to improve human health. Life science organizations in California expanded employment by 6.0 percent in 2022, which outpaced all other industries in California.



## Sample Employers:

Abbott Laboratories  
Aquilus Corporation  
Beckton, Dickinson and Company (BD)  
Bristol Myers Squibb  
Genentech, Inc.

Grifols, S.A.  
Illumina, Inc.  
Kite Pharma, a Gilead Company  
Laboratory Corporation of America  
Pfizer, Inc.

SeaSpine, Inc.  
Thermo Fisher Scientific, Inc.

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$184,422**

average earnings  
per job



**80,992**

people employed



**17%**

of California's Life Sciences  
and Biotechnology  
employment is in San Diego



**12% (10,082)**

5-year projected  
job growth



**2,474**

businesses



**11%**

of California's Life Sciences  
and Biotechnology  
businesses are in San Diego

## DID YOU KNOW?

MiraCosta College offers a Bachelor's Degree in  
Biomanufacturing. **Learn more here:**



\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.



## LIFE SCIENCES & BIOTECHNOLOGY | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$37,440 (i.e., living wage) and a labor market demand of at least 10 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Chemical Equipment Operators and Tenders*	\$19 (\$40K)	●					●
Inspectors, Testers, Sorters, Samplers, and Weighers*	\$18 (\$37K)	●					●
Medical Appliance Technicians*	\$18 (\$37K)	●	●		●		
Ophthalmic Laboratory Technicians*	\$18 (\$37K)	●					●
ASSOCIATE DEGREE							
Chemical Technicians*	\$20 (\$42K)	●	●				●
Life, Physical, and Social Science Technicians, All Other*+	\$22 (\$46K)						
Medical Equipment Repairers*	\$21 (\$44K)	●	●				●
BACHELOR'S DEGREE OR HIGHER							
Anthropologists and Archeologists*	\$28 (\$58K)	●	●	●			
Astronomers	\$57 (\$119K)	●	●	●			
Atmospheric and Space Scientists*	\$41 (\$85K)	●	●				
Biochemists and Biophysicists*	\$44 (\$92K)	●	●	●			
Bioengineers and Biomedical Engineers	\$39 (\$81K)	●	●				
Biological Scientists, All Other*+	\$37 (\$77K)						
Biological Technicians*	\$22 (\$46K)	●	●				●
Chemical Engineers	\$40 (\$83K)	●	●				
Chemists*	\$31 (\$64K)	●	●				●
Clinical Laboratory Technologists and Technicians*+	\$22 (\$46K)						
Conservation Scientists*	\$28 (\$58K)	●	●			●	
Epidemiologists	\$38 (\$79K)		●		●		
Life Scientists, All Other*+	\$32 (\$67K)						
Materials Scientists	\$25 (\$52K)	●	●				
Microbiologists*	\$38 (\$79K)	●	●				
Natural Sciences Managers	\$75 (\$156K)		●			●	
Physicists	\$56 (\$116K)	●	●	●			
Social Science Research Assistants	\$23 (\$48K)		●				●
Social Scientists and Related Workers, All Other*+	\$39 (\$81K)						
Sociologists	\$44 (\$92K)		●	●	●		
Urban and Regional Planners	\$37 (\$77K)		●	●		●	
Zoologists and Wildlife Biologists*	\$36 (\$75K)	●	●				

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# PUBLIC SAFETY & GOVERNMENT

Public safety and government are always in need of qualified candidates. Many employers in this industry have a list of skills in demand, which include communication skills, creativity, critical thinking, detail-oriented, leadership, multi-tasking, organizational skills, planning, positive disposition, problem solving, and teamwork/collaboration. Public safety is also categorized as a recession-resilient job, which has annual openings at or above the regional average. Public safety and government is not limited to first responders, with many pursuing other career possibilities in related fields such as the security industry, law enforcement, custody & corrections (probation & parole), court systems, animal control, postal service, private investigation, public safety dispatch, to name a few.



## Sample Employers:

City of Poway  
City of San Diego  
City of San Diego Fire and Rescue  
National City Police Department  
San Diego Central Library

San Diego County Sheriff  
San Diego County Surveyor  
Superior Court of California  
Superior Court Division  
United States Postal Service

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$98,345**

average earnings  
per job



**335,782**

people employed



**12%**

of California's Public  
Safety and Government  
employment is in San Diego



**4% (14,348)**

5-year projected  
job growth



**1,883**

businesses



**5%**

of California's Public  
Safety and Government  
businesses are in San Diego

\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.





## PUBLIC SAFETY & GOVERNMENT | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$37,440 (i.e., living wage) and a labor market demand of at least 10 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Animal Control Workers*	\$21 (\$44K)	●			●		●
Bailiffs*	\$29 (\$60K)	●				●	●
Correctional Officers and Jailers*	\$29 (\$60K)	●				●	●
Court, Municipal, and License Clerks	\$22 (\$46K)				●	●	●
Detectives and Criminal Investigators*	\$49 (\$102K)	●	●			●	●
Dispatchers, Except Police, Fire, and Ambulance	\$18 (\$37K)	●				●	●
Eligibility Interviewers, Government Programs	\$20 (\$42K)				●	●	●
First-Line Supervisors of Correctional Officers*	\$52 (\$108K)	●				●	●
First-Line Supervisors of Police and Detectives*	\$59 (\$123K)				●	●	●
First-Line Supervisors of Security Workers*+	\$20 (\$42K)						
Parking Enforcement Workers*	\$22 (\$46K)	●					●
Police and Sheriff's Patrol Officers*	\$36 (\$75K)	●			●	●	
Postal Service Clerks	\$25 (\$52K)	●					●
Postal Service Mail Carriers*	\$21 (\$44K)	●					●
Postal Service Mail Sorters, Processors, and Processing Machine Operators	\$19 (\$40K)	●					●
Public Safety Telecommunicators	\$25 (\$52K)	●				●	●
Transportation Security Screeners*	\$24 (\$50K)	●				●	●
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD							
Fire Inspectors and Investigators*	\$21 (\$44K)	●	●				●
Firefighters*	\$24 (\$50K)	●			●	●	
First-Line Supervisors of Firefighting and Prevention Workers*	\$39 (\$81K)	●			●	●	
Library Technicians*	\$18 (\$37K)				●	●	●
BACHELOR'S DEGREE OR HIGHER							
Arbitrators, Mediators, and Conciliators*	\$34 (\$71K)				●	●	
Archivists*	\$21 (\$44K)		●				●
Cartographers and Photogrammetrists*	\$36 (\$75K)	●	●				●
Economists	\$36 (\$75K)		●			●	●
Judges, Magistrate Judges, and Magistrates*	\$108 (\$225K)				●	●	
Judicial Law Clerks*	\$37 (\$77K)		●			●	●
Legislators	\$21 (\$44K)				●	●	
Political Scientists*	\$41 (\$85K)		●	●	●		
Probation Officers and Correctional Treatment Specialists*	\$29 (\$60K)				●	●	●
Survey Researchers	\$19 (\$40K)		●			●	●
Surveyors*	\$33 (\$69K)	●	●				●

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# RETAIL, HOSPITALITY, & TOURISM

The Retail, Hospitality, and Tourism sector holds a pivotal role in the local economy. As it consistently adjusts to evolving consumer preferences and technological progress, it provides a wealth of job opportunities, offering employees the chance to develop skills that are not only transferable, but also enduring and essential in today's job market. Retail, Hospitality, and Tourism entry-level jobs can prepare job seekers for careers within the same sector or across industries as a stepping-stone toward diverse career aspirations and goals.



## Sample Employers:

Bartell Hotels	Omni La Costa Resort & Spa	San Diego Harbor
Fleet Science Center	Omni San Diego Hotel	San Diego Zoo
LEGOLAND	Petco Park	SeaWorld
Live Nation	Port of San Diego	Sesame Place
Loews Hotel Coronado	San Diego Convention Center	Viejas Casino & Resort

## CAREER EDUCATION GUIDE



## SAN DIEGO FAST FACTS\*



**\$44,006**

average earnings  
per job



**272,129**

people employed



**9%**

of California's Retail,  
Hospitality, and Tourism  
employment is in San Diego



**11% (29,762)**

5-year projected  
job growth



**13,292**

businesses



**7%**

of California's Retail,  
Hospitality, and Tourism  
businesses are in San Diego

\*Labor market data derived from Lightcast 2023.3; QCEW, Non-QCEW, Self-Employed; 2022-2027 projections.



## RETAIL, HOSPITALITY, & TOURISM | JOBS & WAGES

The following table lists the **minimum** educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$37,440 (i.e., living wage) and a labor market demand of at least 50 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)	R	I	A	S	E	C
Chefs and Head Cooks*	\$22 (\$46K)	●		●		●	
Coin, Vending, and Amusement Machine Servicers and Repairers*	\$18 (\$37K)	●					●
First-Line Supervisors of Non-Retail Sales Workers	\$22 (\$46K)				●	●	●
First-Line Supervisors of Retail Sales Workers	\$18 (\$37K)				●	●	●
Food Service Managers*	\$21 (\$44K)	●			●	●	●
Lodging Managers	\$25 (\$52K)				●	●	●
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD							
Actors*	\$18 (\$37K)			●		●	
BACHELOR'S DEGREE OR HIGHER							
Entertainment and Recreation Managers, Except Gambling+	\$23 (\$48K)						
General and Operations Managers	\$39 (\$81K)				●	●	●
Interior Designers*	\$23 (\$48K)			●		●	
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	\$38 (\$79K)					●	●

\*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

+ These occupations represent a wide range of characteristics and therefore do not have RIASEC details.



# K-12 CROSSWALK

The crosswalk below shows alignment between the San Diego and Imperial Counties Community College's in-demand industry sectors and the corresponding K12 industry sectors. To see more details about industry sectors and pathways alignment visit <https://careered.org/#careers>



## IN-DEMAND SECTORS

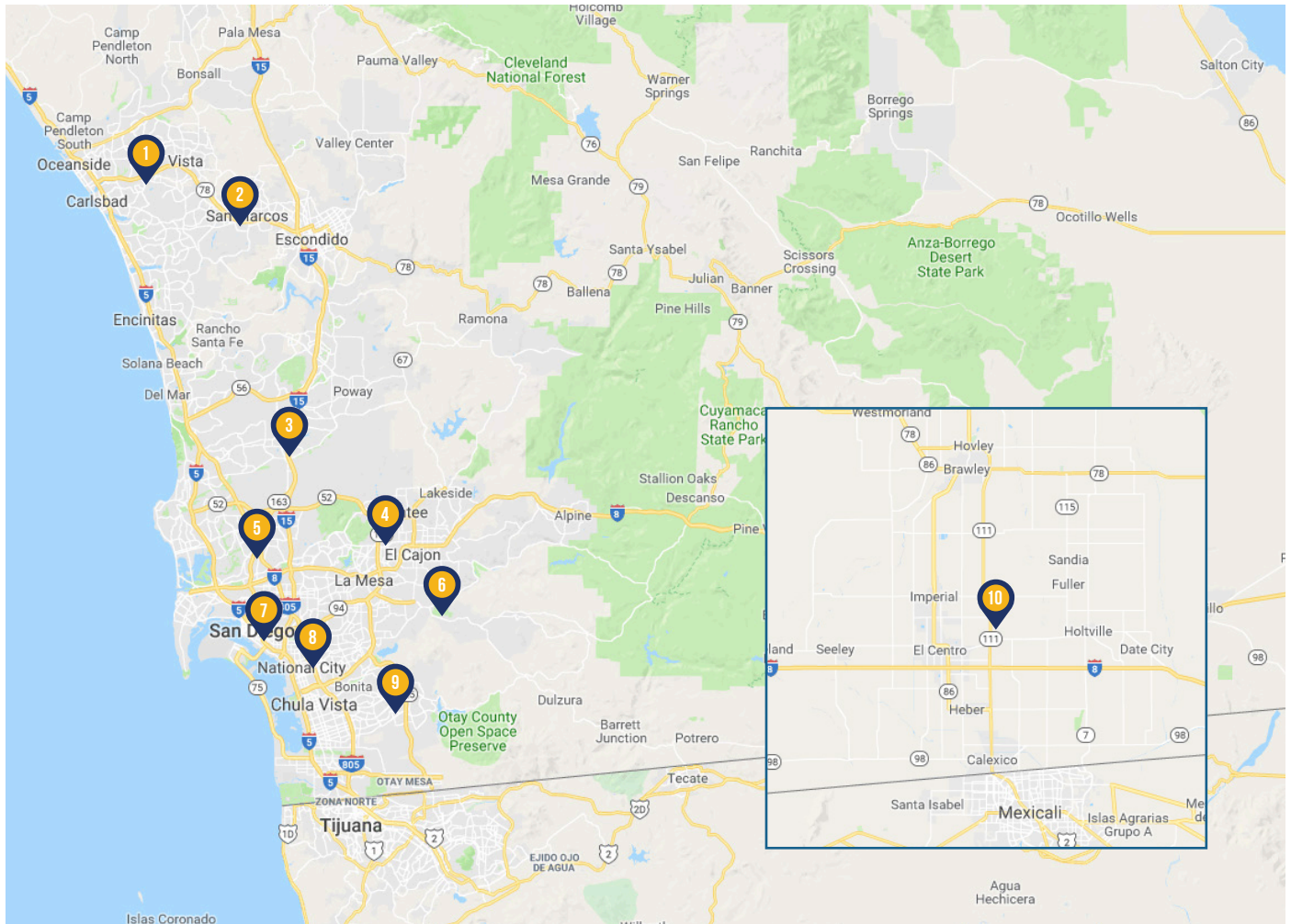
Advanced Manufacturing
Advanced Transportation & Logistics
Agriculture, Water, & Environmental Technologies
Business & Entrepreneurship
Education & Human Development
Energy, Construction, & Utilities
Health
ICT & Digital Media
Life Sciences & Biotechnology
Public Safety & Government
Retail, Hospitality, & Tourism

## K12 CAREER PATHWAYS

Manufacturing & Product Design
Transportation
Agriculture & Natural Resources
Business & Finance
Marketing, Sales, & Service
Education, Child Development, & Family Services
Building & Construction Trades
Energy, Environment, & Utilities
Engineering & Architecture
Health Science & Medical Technology
Information & Communication Technologies
Arts, Media, & Entertainment
Public Services
Hospitality, Tourism, & Recreation
Fashion & Interior Design



# COLLEGE MAP



**1 MIRACOSTA COLLEGE**  
Oceanside

**2 PALOMAR COLLEGE**  
San Marcos

**3 SAN DIEGO MIRAMAR COLLEGE**  
Mira Mesa

**4 GROSSMONT COLLEGE**  
El Cajon

**5 SAN DIEGO MESA COLLEGE**  
Clairemont Mesa

**6 CUYAMACA COLLEGE**  
El Cajon

**7 SAN DIEGO CITY COLLEGE**  
Downtown San Diego

**8 SAN DIEGO COLLEGE OF  
CONTINUING EDUCATION**  
Across San Diego

**9 SOUTHWESTERN COLLEGE**  
Chula Vista

**10 IMPERIAL VALLEY COLLEGE**  
Imperial

# COLLEGE OVERVIEW

## CUYAMACA COLLEGE



### El Cajon

Situated on 165 rolling acres in scenic Rancho San Diego, Cuyamaca College opened in 1978 and serves almost 10,000 students each semester. The school in eastern San Diego County offers 91 degree programs and 74 certificates. Cuyamaca College has renowned career education programs in automotive technology, ornamental horticulture, computer and information science, and engineering.



## GROSSMONT COLLEGE



### El Cajon

Grossmont College, located on a 135-acre mesa in northwest El Cajon, has been a vital part of the community since 1961. Grossmont serves almost 19,000 full- and part-time students per semester, and offers 95 degree and 73 certificate programs. Grossmont College has highly regarded career education programs in culinary arts, nursing and health, and law enforcement.



## IMPERIAL VALLEY COLLEGE



### Imperial

In 1962, a handful of people gathered on a 160-acre plot of land in Imperial, CA. It was the first day of classes for what would become Imperial Valley College. Today, 9,000 students learn across dozens of degree, certificate and career education programs each semester. Over the past decade, Imperial Valley College has continued major modernization programs, including construction of state-of-the-art Career Education buildings and labs, and establishment of innovative educational partnerships.



## MIRACOSTA COLLEGE



### Oceanside

The MiraCosta Community College District includes Oceanside, Carlsbad, La Costa, Encinitas, Olivenhain, Rancho Santa Fe, Cardiff by the Sea, Solana Beach, Del Mar, and Carmel Valley. With its coastal location, beautiful campuses, and strong academic programs, MiraCosta College attracts students from throughout San Diego County, the state, and the country as well as from abroad. Founded in 1934, today, MiraCosta is one of a handful of California community colleges that offers a bachelor's degree. Nearly 15,000 students take class each semester, including military members and veteran community.



## PALOMAR COLLEGE



### San Marcos

Palomar College is a public, two-year community college. Its main campus is located approximately 30 miles north of downtown San Diego, in San Marcos, California. Palomar enrolls nearly 30,000 full-time and part-time students and gives you the opportunity to choose from over 200 associate degrees, complete certificate training programs, and enjoy career education classes for lifelong learning.

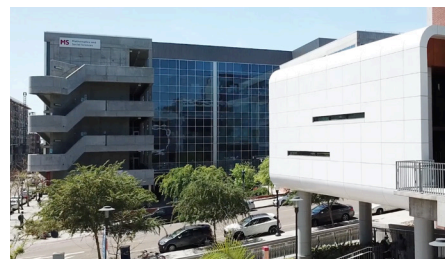


## SAN DIEGO CITY COLLEGE



### Downtown San Diego

For more than 100 years, City College has been a public, two-year community college serving as the educational cornerstone of downtown San Diego. The college covers 60 acres, taking up 20% of downtown's footprint. By the numbers, the school offers 250 majors and certificate programs, and conducts 1,500 classes each semester for more than 17,000 students. Explore career education at City College.



## SAN DIEGO COLLEGE OF CONTINUING EDUCATION



### Across San Diego

Founded in 1914, SDCE is the adult education division of the San Diego Community College District. SDCE provides accessible, equitable, and innovative quality education across more than 70 programs and thousands of free classes. Programs are available at seven campuses in San Diego from the Barrio Logan community in the south, to Miramar in the north. Students also attend classes at over 200 community locations.

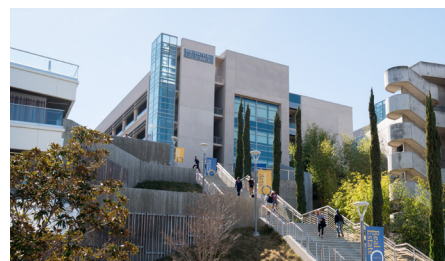


## SAN DIEGO MESA COLLEGE



### Clairemont Mesa

As one of California's largest community colleges, Mesa College ranks as San Diego's top transfer institution, with small classes, award-winning faculty, and a reputation as the leading college of equity and excellence. Conveniently located in central San Diego, Mesa offers Career Education programs in sectors such as allied health, Geographic Information Systems (GIS), business, multimedia, hospitality, culinary arts, fashion, architecture, and interior design along with a four-year baccalaureate degree in Health Information Management.



## SAN DIEGO MIRAMAR COLLEGE



### Mira Mesa

Founded in 1969, and located in Mira Mesa, Miramar College enrolls 15,000 students annually, in both online and on-campus classes. The school offers 117 degrees and certificates across 16 career education programs. Partnerships with local industries help prepare students for high-demand and well-paying jobs in the highly-competitive labor market, including biotechnology, paralegal, aviation, automotive, diesel and advanced transportation and energies.



## SOUTHWESTERN COLLEGE



### Chula Vista

Since its inception in 1961, Southwestern College has shaped the lives of hundreds of thousands of South County students through higher education. Nestled on a 156-acre campus in the heart of Chula Vista, the school provides a supportive environment, with over 320 associate degree and certificate programs available for a highly diverse traditional and non-traditional student population. Whether your goal is a certificate, degree, transferring to a four-year college, or pursuing career education, SWC offers extensive opportunities to meet educational, career and personal improvement goals with five locations throughout the South Bay.





# ADDITIONAL RESOURCES



## California Career Center

California Career Center is a virtual counselor for career and college exploration and planning resources to help students map their futures. The Career Center is focused on students but also contains resources for counselors, teachers, and parents/guardians.  
<https://www.calcareercenter.org/>

### California Career Center-My Stuff Resume

The My Stuff Resume enables students to create and revise resumes that can also be created and revised in their California Career Center "My Stuff" student accounts. Download from the Apple App Store or Google Play Store.

### California Career Center-My Stuff Career Action Plan

The Career Action Plan enables students to create and revise Career Action Plans that can also be created and revised in their California Career Center "My Stuff" accounts. Look for "Career Action" in the Apple App Store or Google Play Store.



## California Career Zone

Career exploration and planning system designed especially for students. Jobseekers, educators, and counselors will benefit from the wealth of information on 900 occupations from the Occupational Information Network (O\*Net) database  
[www.cacareerzone.org](http://www.cacareerzone.org)



## California Community Colleges Career Coach

Discover majors and in-demand careers and education based on your interests. Take a career assessment, browse careers, or browse programs. Offers Military Search. Powered by EMSI.  
<https://ccc.emsicc.com/>



## California Community Colleges Career Education

Explore or find careers and the Community College certificates and degrees to get you there!  
<https://icangotocollege.com/careers>



## California Community Colleges My Path

CCC MyPath is a guided pathway onboarding platform that provides information and resources to incoming students, and bridges the gap between the online application and a college's local systems.  
<https://www.cccmypath.org>



## Career Surfer

Career Surfer is CalCRN's mobile application that can be downloaded for free from AppStore or Google Play. Basic information about the 900 occupations detailed on the California Career Zone.  
<https://www.calcareercenter.org/Home/Content?contentID=404>



## Career Technical Education

Career Technical Education is a program of study that involves a multiyear sequence of courses that integrates core academic knowledge with technical and occupational knowledge to provide students with a pathway to postsecondary education and careers.  
[www.cde.ca.gov/ci/ct/](http://www.cde.ca.gov/ci/ct/)



## CTE Model Curriculum Standards

The Career Technical Education (CTE) Model Curriculum Standards are designed to assist California districts and schools in developing high-quality curriculum and instruction to help ensure that students are career and college ready and to prepare them for future careers.  
<https://www.cde.ca.gov/ci/ct/sf/ctemcstandards.asp>





## San Diego & Imperial Regional Consortium Career Development Continuums

### MS Career Development



### HS Career Development



These documents describe practice along a continuum of support for students, from “self-awareness”, “career awareness”, and “career exploration”, to “career preparation” and “career training”. Each continuum describes WHAT you can do.



## San Diego & Imperial Regional Consortium Counselor Conference

Links to breakout session handouts, PowerPoints, and more.



## San Diego & Imperial Regional Consortium Resources

Resources such as research studies, archived webinars, and best practices in support of activities related to: 21st Century employability skills, career development, career exploration, career pathways, parent engagement, transitions, work-based learning. Resources are organized by topic and are searchable by type, format, and keywords.  
<https://myworkforceconnection.org/resources/>



## O\*NET

O\*NET is a tool for career exploration and job analysis. It has detailed descriptions of the world of work for use by job seekers, workforce development and HR professionals, students, researchers, and more!

<https://www.onetonline.org/>



## O\*NET My Next Move

My Next Move is an interactive tool for job seekers and students to learn more about their career options. Users can find careers through keyword search; by browsing industries that employ different types of workers; or through the O\*NET Interest Profiler, a tool that offers personalized career suggestions based on a person's interests and level of work experience.

<https://www.mynextmove.org/>



## San Diego & Imperial Counties Community Colleges

The regional career education website for the San Diego and Imperial Counties Community Colleges. Includes career and college exploration as well as information about fees and how to apply.

<https://careered.org/>



## San Diego & Imperial Counties Community Colleges - K14 Program Finder

Explore career education programs by community college, high school, adult school or career area.

<https://careered.org/k14-program-finder/>



## Salary Surfer

To help students and their families make important decisions about investing time and money in a college education, the California Community Colleges Chancellor's Office, through Salary Surfer, is providing comparative information about the earnings of recent California community college graduates who received an award in a specific program of study.

<https://salarysurfer.cccco.edu/SalarySurfer.aspx>

# LEARN MORE. EARN MORE.

CareerEd.org



POWERED BY  
California Community Colleges

**COMMUNITY COLLEGES**  
SAN DIEGO & IMPERIAL COUNTIES  
**CAREER EDUCATION**



**C·O·E**

CENTERS OF EXCELLENCE  
FOR LABOR MARKET RESEARCH