Labor Market Information for Data Science Certificate at Grossmont College

Labor Market data illustrates that job demand exceeds number of degrees conferred.

Top Code: Computer Information Systems (0702)

Additional Top Codes: Computer Software Development (0707) and Database Design and Administration (0707)
Note: Top Code(s) was verified by Center of Excellence-San Diego/Imperial and supports this certificate.

Annual Job Openings by Occupation

TOP Code(s):

070200   Computer Information Systems

Geography: California
Includes: All California Counties

Annual Job Openings by Occupation			
SOC Code	Occupation Title (Linked to "Occupation Profile")	2016 Employment	Annual Job Openings (1)
151111	Computer and Information Research Scientists	5,000	470
113021	Computer and Information Systems Managers	53,000	5,110
151121	Computer Systems Analysts	79,200	6,220
151132	Software Developers, Applications	134,200	15,500
151133	Software Developers, Systems Software	93,200	7,470
	Total	364,600	34,770

(1) Total Job Openings are the sum of new jobs from growth plus net replacements. Annual job openings are total job openings divided by the number of years in the projection period.

(2)This occupation has been suppressed due to confidentiality.

Source: https://www.labormarketinfo.edd.ca.gov/commcolleges/Projections.asp

Supply and Demand Data for San Diego/Imperial Counties

SOC TITLE	SOC TITLE	AVERAGE ANNUAL OPENINGS (2017-22)	SUPPLY GAP/ OVERSUPPLY	AVERAGE ANNUAL AWARDS (2015-17)	TOP6 TITLE	TOP6 OR CIP	COLLEGE	COLLEGE SUPPLY	ENTRY-LEVEL WAGE (25th PERCENTILE)	MEDIAN WAGE
					Electronic Game Design	061420	Already accounted for	0		
					Computer Software Development	070700	Already accounted for	0		
					Software Applications	070210	Grossmont+	2		
							MiraCosta	10		
							San Diego Continuing Ed+	6		
15-1132	Software Developers, Applications	875	Supply Gap	40			San Diego City+	0	$39.36	$50.67
							San Diego Miramar	2		
							Southwestern	1		
							Palomar*	0		
					Computer Software and Media Applications, Other	CIP 11.0899	Non-community college provider	19		
					Computer Programming	070710	Already accounted for	0		
					Computer Software Development	070700	Palomar	20		
							San Diego Mesa*	0		
15-1133	Software Developers, Systems Software	667	Supply Gap	20			Southwestern*	0	$43.82	$55.26
							San Diego City*	0		
							MiraCosta*	0		
					Computer Programming	070710	Already accounted for	0		
					Information Technology, General	070100	Already accounted for	0		
15-1141	Database Administrators	90	Supply Gap	0	Database Design and Administration	070720	N/A	N/A	$34.48	$45.06
					Computer Infrastructure and Support	070800	Already accounted for	0		
					Computer Networking	070810	Already accounted for	0		

Source: Supply and Demand data for San Diego for ICT Sector, Centers of Excellence-San Diego/Imperial

Occupational Employment (May 2017) & Wage (2018-1st Quarter) data

Occupational Employment Statistics (OES) Survey Results

Geography: San Diego-Carlsbad MSA
Counties: San Diego

MSA Code	Geographic Area Name	SOC Code	Occupational Title	May 2017 Employment Estimates	2018 - 1st Quarter Wages				
					Mean Hourly Wage	Mean Annual Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
041740	San Diego-Carlsbad, CA	15-1132	Software Developers, Applications	10,730	$51.15	$106,391	$39.93	$51.96	$62.90
041740	San Diego-Carlsbad, CA	15-1141	Database Administrators	1,100	$46.33	$96,358	$34.97	$45.90	$58.55
041740	San Diego-Carlsbad, CA	15-1142	Network and Computer Systems Administrators	3,270	$43.94	$91,392	$34.46	$42.18	$52.13

Program Awards Summary for San Diego/Imperial Counties
Top Code: 0702

	Annual 2015-2016	Annual 2016-2017	Annual 2017-2018
Grossmont CCD Total	2	3	
Associate of Science (A.S.) degree	1	2	
Certificate requiring 18 to < 30 semester units	1	1	
Imperial CCD Total	7	8	7
Associate of Science (A.S.) degree	7	8	7
MiraCosta CCD Total	13	9	8
Associate of Arts (A.A.) degree	1		1
Certificate requiring 18 to < 30 semester units	1	2	2
Certificate requiring 12 to < 18 units	9	4	4
Certificate requiring 6 to < 18 semester units	2	3	1
Palomar CCD Total	19	13	9
Associate of Science (A.S.) degree		6	3
Associate of Arts (A.A.) degree	9		1
Certificate requiring 30 to < 60 semester units	10	7	5
San Diego CCD Total	41	45	154
Associate of Science (A.S.) degree	21	14	23
Certificate requiring 30 to < 60 semester units	18	10	18
Certificate requiring 12 to < 18 units	1		2
Certificate requiring 6 to < 18 semester units	1	3	21
Noncredit award requiring from 48 to < 96 hours		18	90
Southwestern CCD Total	4	6	2
Associate of Arts (A.A.) degree	2	4	2
Certificate requiring 18 to < 30 semester units	1	1	
Certificate requiring 12 to < 18 units	1		
Certificate requiring 6 to < 18 semester units		1	

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Source: https://datamart.cccco.edu/Outcomes/Program_Awards.aspx

DATA SCIENTISTS (SIMILAR PROFESSIONS)

(Software programs in geography (ArcGIS/Esri), CIS department (Python), engineering department)

Results for Occupational Job Titles:
Source: O*Net Tools & Technology search: ArcGIS/Esri, Python
https://www.onetonline.org/search/

SOC CODE	OCCUPATIONAL TITLE	MAY 2017 EMPLOYMENT ESTIMATES	MEAN HOURLY WAGE	MEAN ANNUAL WAGE

15-2011	Actuaries	*	$71.62	$148,959
17-3021	Aerospace Engineering and Operations Technicians	740	$32.79	$68,199
17-2011	Aerospace Engineers	1.660	$53.13	$110,513
53-1011	Aircraft Cargo Handling Supervisor	*	$24.40	$50,750
11-9041	Architectural and Engineering Managers	2,720	$81.60	$169,728

An estimate of employment could not be provided

Source for San Diego County data: 2018-1st Quarter Data Source:
http://www.labormarketinfo.edd.ca.gov/data/oes-employment-and-wages.html