

Occupation Profile

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Software Developers, Systems Software
(SOC Code : 15-1133)
in San Diego County

Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. Apply principles and techniques of computer science, engineering, and mathematical analysis.

Employers are usually looking for candidates with a Bachelor's degree .

San Diego County is the same as San Diego-Carlsbad MSA.

Occupational Wages [\[Top\]](#)
Wages for this occupation in San Diego County are not available.

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Occupational Projections of Employment (also called "Outlook" or "Demand") [\[Top\]](#)

Area	Estimated Year-Projected Year	Employment		Employment Change		Annual Avg Openings
		Estimated	Projected	Number	Percent	
San Diego County	2016 - 2026	8,400	9,410	1,010	12.0	660

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Job Openings from JobCentral National Labor Exchange [\[Top\]](#)

Enter a Zip Code [Find a Zip code in San Diego County](#)

Within miles of Zip Code.

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Industries Employing This Occupation (click on Industry Title to View Employers List) [\[Top\]](#)

Industry Title	Number of Employers in San Diego County	Percent of Total Employment for Occupation in State of California
Computer Systems Design and Rel Services	798	32.9%
Computers and Peripheral Equipment	26	10.8%
Electronic Instrument Manufacturing	88	6.8%
Scientific Research and Development Svc	905	5.3%

Management & Technical Consulting Svc	3,292	4.2%
Aerospace Product & Parts Manufacturing	20	3.7%
Software Publishers	467	3.6%
Architectural and Engineering Services	1,861	3.2%
Communications Equipment Manufacturing	52	3.2%
Semiconductor and Electronic Components	130	2.8%
Data Processing and Related Services	284	1.9%
Employment Services	390	1.8%
Commercial Goods Merchant Wholesalers	404	1.4%
Management of Companies and Enterprises	406	1.3%
Electric Goods Merchant Wholesalers	515	1.3%

About Staffing Patterns

Training Programs (click on title for more information) [\[Top\]](#)

Program Title

[Computer Engineering, General](#)

[Computer Programming, Specific Applications](#)

[Computer Programming/Programmer, General](#)

[Computer Science.](#)

[Computer Software Technology/Technician](#)

About Training & Apprenticeships

About This Occupation (from O*NET - The Occupation Information Network) [\[Top\]](#)

Top Tasks (Specific duties and responsibilities of this job.)

Modify existing software to correct errors, to adapt it to new hardware, or to upgrade interfaces and improve performance.

Develop or direct software system testing or validation procedures.

Direct software programming and development of documentation.

Consult with customers or other departments on project status, proposals, or technical issues, such as software system design or maintenance.

Analyze information to determine, recommend, and plan installation of a new system or modification of an existing system.

Consult with engineering staff to evaluate interface between hardware and software, develop specifications and performance requirements, or resolve customer problems.

Design or develop software systems, using scientific analysis and mathematical models to predict and measure outcome and consequences of design.

Prepare reports or correspondence concerning project specifications, activities, or status.

Confer with data processing or project managers to obtain information on limitations or capabilities for data processing projects.

Store, retrieve, and manipulate data for analysis of system capabilities and requirements.

[More Tasks for Computer Software Engineers, Systems Software](#) , [More Tasks for Software Developers, Systems Software](#)

Top Skills used in this Job

Reading Comprehension - Understanding written sentences and paragraphs in work related documents.

Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Complex Problem Solving - Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Speaking - Talking to others to convey information effectively.

Judgment and Decision Making - Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Mathematics - Using mathematics to solve problems.

Social Perceptiveness - Being aware of others` reactions and understanding why they react as they do.

Coordination - Adjusting actions in relation to others` actions.

Monitoring - Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

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Top Abilities (Attributes of the person that influence performance in this job.)

Oral Comprehension - The ability to listen to and understand information and ideas presented through spoken words and sentences.

Written Comprehension - The ability to read and understand information and ideas presented in writing.

Oral Expression - The ability to communicate information and ideas in speaking so others will understand.

[More Abilities for Computer Software Engineers, Systems Software](#) , [More Abilities for Software Developers, Systems Software](#)

Top Work Values (Aspects of this job that create satisfaction.)

Achievement - Occupations that satisfy this work value are results oriented and allow employees to use their strongest abilities, giving them a feeling of accomplishment.

Working Conditions - Occupations that satisfy this work value offer job security and good working conditions.

[More WorkValues for Computer Software Engineers, Systems Software](#) , [More WorkValues for Software Developers, Systems Software](#)

Top Interests (The types of activities someone in this job would like.)

Investigative - Investigative occupations frequently involve working with ideas, and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.

Conventional - Conventional occupations frequently involve following set procedures and routines. These occupations can include working with data and details more than with ideas. Usually there is a clear line of authority to follow.

[More Interests for Computer Software Engineers, Systems Software](#) , [More Interests for Software Developers, Systems Software](#)

Alternate Titles

Business Systems Analysts; Computer Consultants; Programmer Analysts; Software Developers; Software Engineers; and Systems Engineers

Related Links

[LMI for Job Seekers](#)

[Local Area Profile](#)

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