

Occupation Profile

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Software Developers, Applications

(SOC Code : 15-1132)

in San Diego County

Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. Exclude "Computer Hardware Engineers" (17-2061).

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	10,320	13,510	3,190	30.9	1,067

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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	29.5%
Software Publishers	467	9.3%
Computers and Peripheral Equipment	26	5.8%
Colleges and Universities	121	5.8%
Data Processing and Related Services	284	2.9%

Commercial Goods Merchant Wholesalers	404	2.9%
Management of Companies and Enterprises	406	2.6%
Electronic Instrument Manufacturing	88	2.3%
Architectural and Engineering Services	1,861	2.2%
Management & Technical Consulting Svc	3,292	2.1%
Scientific Research and Development Svc	905	2.1%
Semiconductor and Electronic Components	130	1.9%
Employment Services	390	1.6%
Communications Equipment Manufacturing	52	1.0%
Motion Picture and Video Industries	254	1.0%

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, allow it to adapt to new hardware, or to improve its performance.

Develop and direct software system testing and validation procedures, programming, and documentation.

Confer with systems analysts, engineers, programmers and others to design system and to obtain information on project limitations and capabilities, performance requirements and interfaces.

Analyze user needs and software requirements to determine feasibility of design within time and cost constraints.

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

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

Consult with customers about software system design and maintenance.

Supervise the work of programmers, technologists and technicians and other engineering and scientific personnel.

Coordinate software system installation and monitor equipment functioning to ensure specifications are met.

Determine system performance standards.

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Top Skills used in this Job

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

Programming - Writing computer programs for various purposes.

Systems Analysis - Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.

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

Systems Evaluation - Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.

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

Operations Analysis - Analyzing needs and product requirements to create a design.

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.

Mathematics - Using mathematics to solve problems.

Speaking - Talking to others to convey information effectively.

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

Problem Sensitivity - The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.

Deductive Reasoning - The ability to apply general rules to specific problems to produce answers that make sense.

Inductive Reasoning - The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).

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

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

Recognition - Occupations that satisfy this work value offer advancement, potential for leadership, and are often considered prestigious.

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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.

Realistic - Realistic occupations frequently involve work activities that include practical, hands-on problems and solutions. They often deal with plants, animals, and real-world materials like wood, tools, and machinery. Many of the occupations require working outside, and do not involve a lot of paperwork or working closely with others.

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Alternate Titles

Application Integration Engineers; Applications Developers; Business Systems Analysts; Computer Consultants; Programmer Analysts; Software Architects; Software Development Engineers; Software Engineers; and Technical Consultants

Related Links

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