

# Occupation Profile

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Computer Programmers  
(SOC Code : 15-1131)  
in San Diego County

Convert project specifications and statements of problems and procedures to detailed logical flow charts for coding into computer language. Develop and write computer programs to store, locate, and retrieve specific documents, data, and information. May program web sites.

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.

[View Wages for All Areas](#) [About Wages](#)

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	3,360	3,170	-190	-5.7	184

[View Projections for All Areas](#) [About Projections](#)

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
<a href="#">Computer Systems Design and Rel Services</a>	798	42.9%
<a href="#">Software Publishers</a>	467	5.8%
<a href="#">Management &amp; Technical Consulting Svc</a>	3,292	3.2%
<a href="#">Employment Services</a>	390	3.2%
<a href="#">Scientific Research and Development Svc</a>	905	2.6%
<a href="#">Management of Companies and Enterprises</a>	406	2.5%

Computers and Peripheral Equipment	26	2.2%
Other Information Services	259	1.9%
Electronic Instrument Manufacturing	88	1.8%
General Medical and Surgical Hospitals	110	1.6%
Other Professional & Technical Services	2,111	1.5%
Data Processing and Related Services	284	1.1%
Aerospace Product & Parts Manufacturing	20	1.1%
Architectural and Engineering Services	1,861	1.1%
Office Administrative Services	408	1.0%
Accounting and Bookkeeping Services	1,579	1.0%

### About Staffing Patterns

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

Program Title

[Computer Graphics](#)

[Computer Programming, Specific Applications](#)

[Computer Programming, Vendor/Product Certification](#)

[Computer Programming/Programmer, General](#)

[Computer Science.](#)

### About Training & Apprenticeships

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

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

Correct errors by making appropriate changes and rechecking the program to ensure that the desired results are produced.

Conduct trial runs of programs and software applications to be sure they will produce the desired information and that the instructions are correct.

Write, update, and maintain computer programs or software packages to handle specific jobs such as tracking inventory, storing or retrieving data, or controlling other equipment.

Write, analyze, review, and rewrite programs, using workflow chart and diagram, and applying knowledge of computer capabilities, subject matter, and symbolic logic.

Perform or direct revision, repair, or expansion of existing programs to increase operating efficiency or adapt to new requirements.

Consult with managerial, engineering, and technical personnel to clarify program intent, identify problems, and suggest changes.

Perform systems analysis and programming tasks to maintain and control the use of computer systems software as a systems programmer.

Compile and write documentation of program development and subsequent revisions, inserting comments in the coded instructions so others can understand the program.

Prepare detailed workflow charts and diagrams that describe input, output, and logical operation, and convert them into a series of instructions coded in a computer language.

Consult with and assist computer operators or system analysts to define and resolve problems in running computer programs.

[More Tasks for Computer Programmers](#) , [More Tasks for Computer Programmers](#)

Top Skills used in this Job

**Programming** - Writing computer programs for various purposes.

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

**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.

**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.

**Quality Control Analysis** - Conducting tests and inspections of products, services, or processes to evaluate quality or performance.

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

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

**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.

**Time Management** - Managing one`s own time and the time of others.

[More Skills for Computer Programmers](#) , [More Skills for Computer Programmers](#)

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

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

[More Abilities for Computer Programmers](#) , [More Abilities for Computer Programmers](#)

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 Programmers](#) , [More WorkValues for Computer Programmers](#)

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 Programmers](#) , [More Interests for Computer Programmers](#)

Alternate Titles

Programmer Analysts; Programmers; Software Developers or Engineers; Mainframe Programmers; Web Programmers; and Web Application Developers

Related Links

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[Local Area Profile](#)

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