

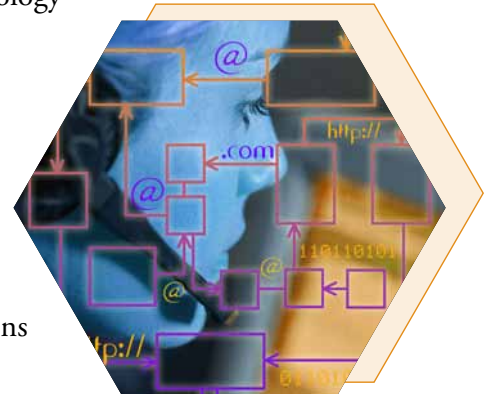
FOCUS ON

COMPUTER SOFTWARE ENGINEER

Houston Gulf Coast Region*

GET A FRESH BYTE ON A BRIGHT CAREER ... BE A COMPUTER SOFTWARE ENGINEER

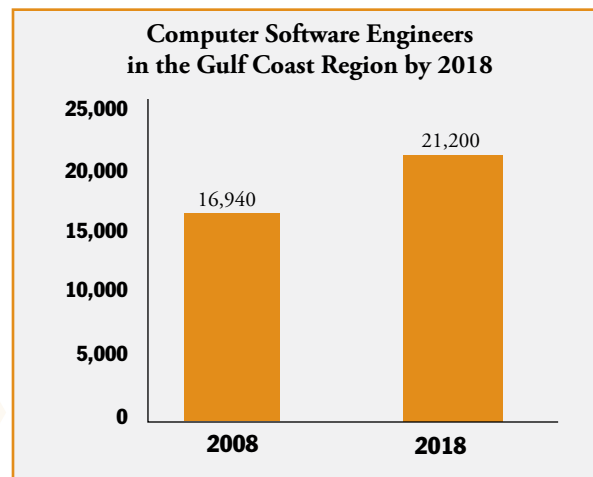
Organizations and businesses rely more and more on computer technology to operate efficiently in the competitive global market. Computer software engineers specialize in working with applications or systems. Applications engineers design, build, customize, test, and maintain general computer applications software or specialized utility programs. Systems engineers coordinate the construction, maintenance, and expansion of an organization's computer system.



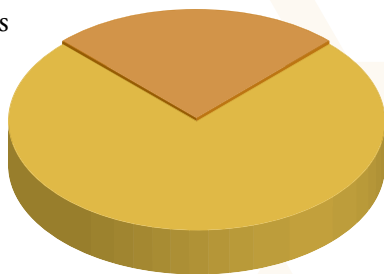
Computer software engineers are one of the fastest-growing occupations in the information technology field. As technology becomes more sophisticated, demand for computer software engineers will continue to increase offering great job opportunities. The Gulf Coast region employs a large number of computer software engineers and faces an increasing challenge to fill upcoming vacancies.

THE NUMBER OF JOBS FOR COMPUTER SOFTWARE ENGINEERS, IN THE REGION, IS EXPECTED TO BE MORE THAN 21,000 BY 2018!

THE REGION NEEDS 565 NEW COMPUTER SOFTWARE ENGINEERS EACH YEAR TO KEEP UP WITH DEMAND.



Openings Due to Replacement
140 Jobs



Annual Job Openings – Gulf Coast Region

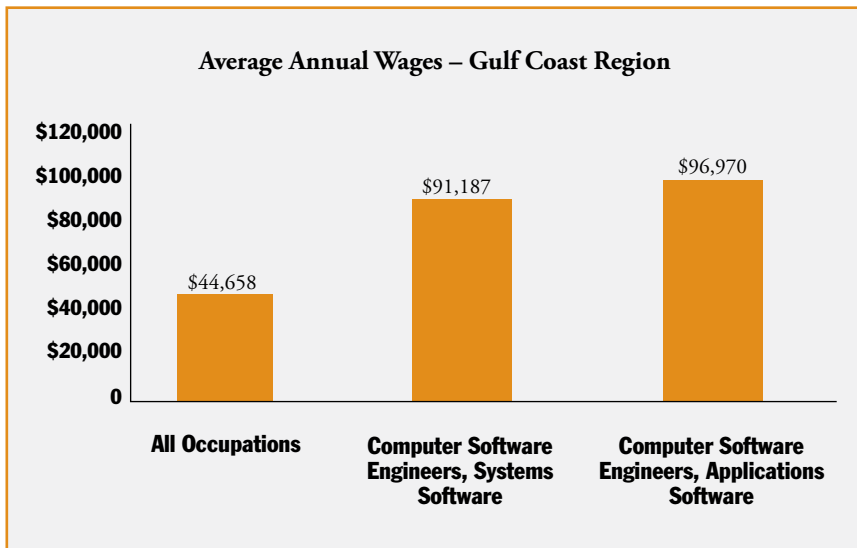
Openings Due to Growth
425 Jobs

*Includes the following counties: Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Harris, Liberty, Matagorda, Montgomery, Walker, Waller, and Wharton.

Brought to you by the Education Committee of The Gulf Coast Workforce Board. For more information visit us on the web at www.wrksolutions.com. Latest data available. May 2011.

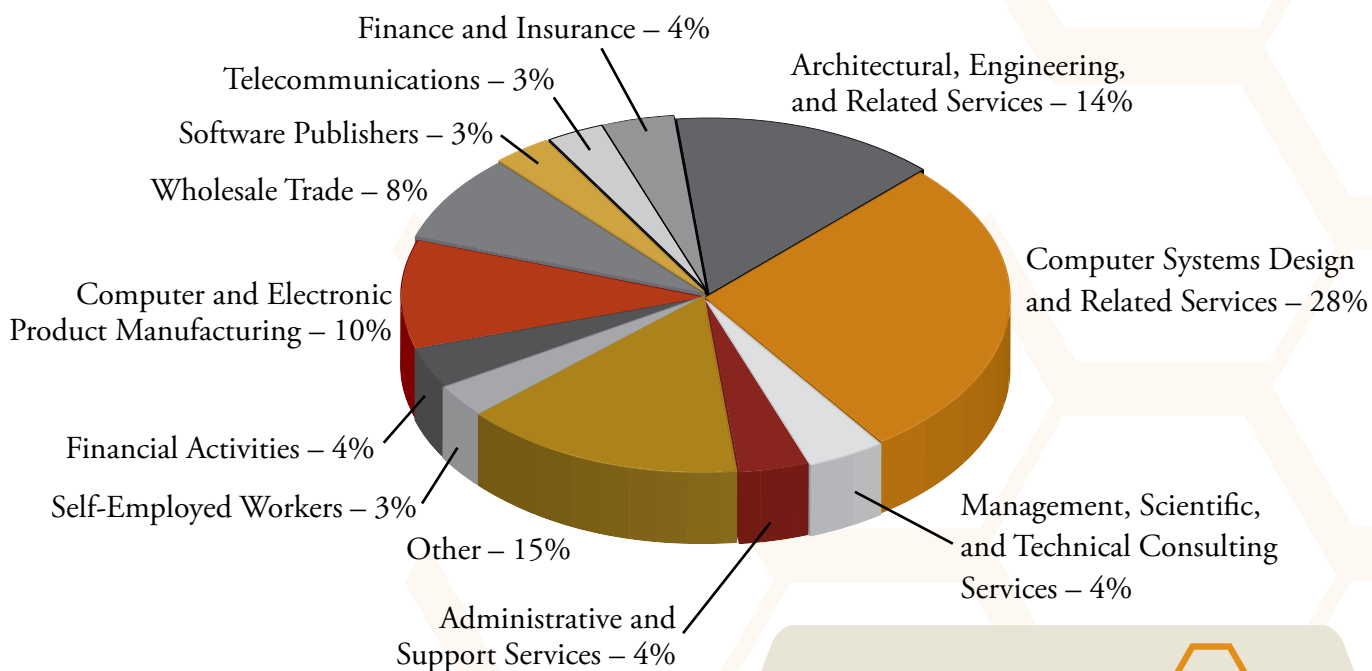
FOCUS ON COMPUTER SOFTWARE ENGINEER

COMPUTER SOFTWARE ENGINEERS EARN EXCELLENT WAGES!



JOB OPPORTUNITIES ARE AVAILABLE ACROSS A WIDE VARIETY OF INDUSTRIES WITH THE LARGEST IN COMPUTER SYSTEMS DESIGN AND RELATED SERVICES.

Computer Software Engineers – Gulf Coast Region 2018



FOCUS ON COMPUTER SOFTWARE ENGINEER

PLAN EARLY TO BECOME A COMPUTER SOFTWARE ENGINEER.

To become a computer software engineer, a bachelor's degree is generally required with coursework in computer science, information systems or software engineering. You also need a broad knowledge of a variety of computer systems and technologies. Earning a master's degree will make you much more marketable, and some of the more complex jobs will require that level of education. This occupation demands frequent skill upgrades and knowledge of the constantly changing technology. Students should strive for the highest GPA possible so they have the needed edge for acceptance into a computer science program. High school preparation should encompass chemistry, physics, mathematics and science.

Additional information can be found at the following:

- Association for Computing Machinery (ACM), <http://www.acm.org>
- Institute of Electronics and Electrical Engineers Computer Society (IEEE), <http://www2.computer.org/portal/web/guest/home>

PREPARING FOR A COMPUTER SUPPORT SPECIALIST CAREER

9th Grade	Suggested Coursework		
	English I	World Geography	Career-Related Electives: Introduction to Information Technology or Business Computer Information Systems I or Computer Applications or Introduction to Computer Maintenance
	Algebra I	Languages other than English I	
	Biology	Health/PE or Equivalent	
10th Grade	Suggested Coursework		
	English II	World History	Career-Related Electives: Business Computer Programming I
	Geometry	Languages other than English II	
	Chemistry	Technology Applications	
11th Grade	Suggested Coursework		
	English III	United States History	Career-Related Electives: Business Computer Programming II or Computer Science I
	Algebra II	Communication Applications	
	Physics	PE or Equivalent	
12th Grade	Suggested Coursework		
	English IV	Government/Economics	Career-Related Electives: Computer Science II or related Career Preparation program or Independent Study or Calculus or AP Computer Science
	Precalculus	Fine Arts	
	Environmental Systems		

*Source: AchieveTexas.org

FOCUS ON COMPUTER SOFTWARE ENGINEER

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GULF COAST REGION COMPUTER SCIENCE AND RELATED DEGREE PROGRAMS

COMMUNITY COLLEGES

- Alvin Community College
- Brazosport College
- College of the Mainland
- Galveston College
- Houston Community College System
- Lee College
- Lone Star College System
- San Jacinto College
- Wharton County Junior College

UNIVERSITIES

- Houston Baptist University
- Prairie View A&M University
- Rice University
- Sam Houston State University
- Texas Southern University
- Texas Woman's University
- University of Houston
- University of St. Thomas

MAJOR EMPLOYERS IN THE GULF COAST REGION

- ABB
- Altra Energy Technologies
- BEI Corporation
- BMC Software
- BSI Consulting
- CGI Systems International
- Cisco Systems Inc.
- Comsys Information Technology
- CSC Consulting Inc.
- INX
- Jack Henry & Associates Inc.
- Keane Inc.
- National Integrated Systems
- Navisite, Inc
- Robert Half Technology
- Solid Systems



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