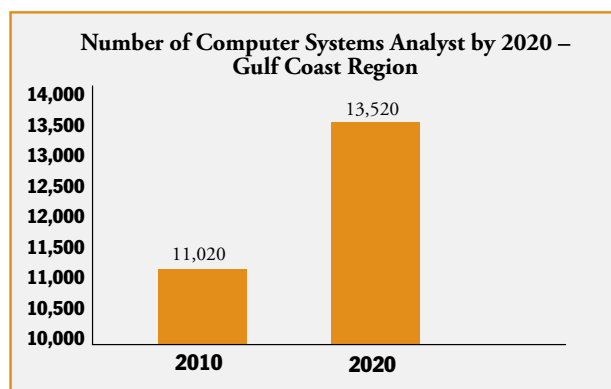## PUT YOUR MIND TO IT …
BE A COMPUTER SYSTEMS ANALYST.

Organizations and businesses increasingly rely on computer technology to operate efficiently in the highly competitive global marketplace. Computer systems analysts solve computer problems and apply computer technology to meet the needs of an organization. They analyze user requirements, procedures, and problems to automate or improve existing systems, and review computer systems capabilities, workflow, and scheduling limitations. Depending on where they are employed, most systems analysts work with specific systems such as business, accounting, financial, scientific, or engineering.

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

THE NUMBER OF COMPUTER SYSTEMS ANALYSTS IN THE REGION IS EXPECTED TO BE MORE THAN 13,500 BY 2020!
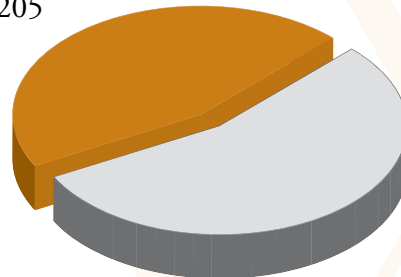
Number of Computer Systems Analyst by 2020 – Gulf Coast Region

Year	Number
2010	11,020
2020	13,520

Annual Job Openings – Gulf Coast Region

Due to Replacement 205

Due to Growth 250

THE REGION NEEDS MORE THAN 450 NEW COMPUTER SYSTEMS ANALYSTS EACH YEAR TO KEEP UP WITH THIS DEMAND.
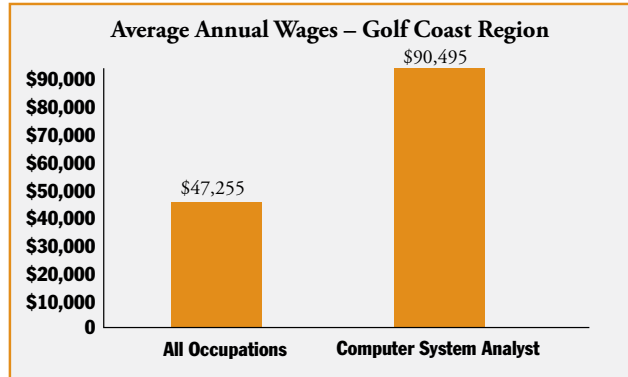
Brought to you by the Education Committee of The Gulf Coast Workforce Board.
For more information, visit us on the Web at wrksolutions.com
Latest data available. June 2013.

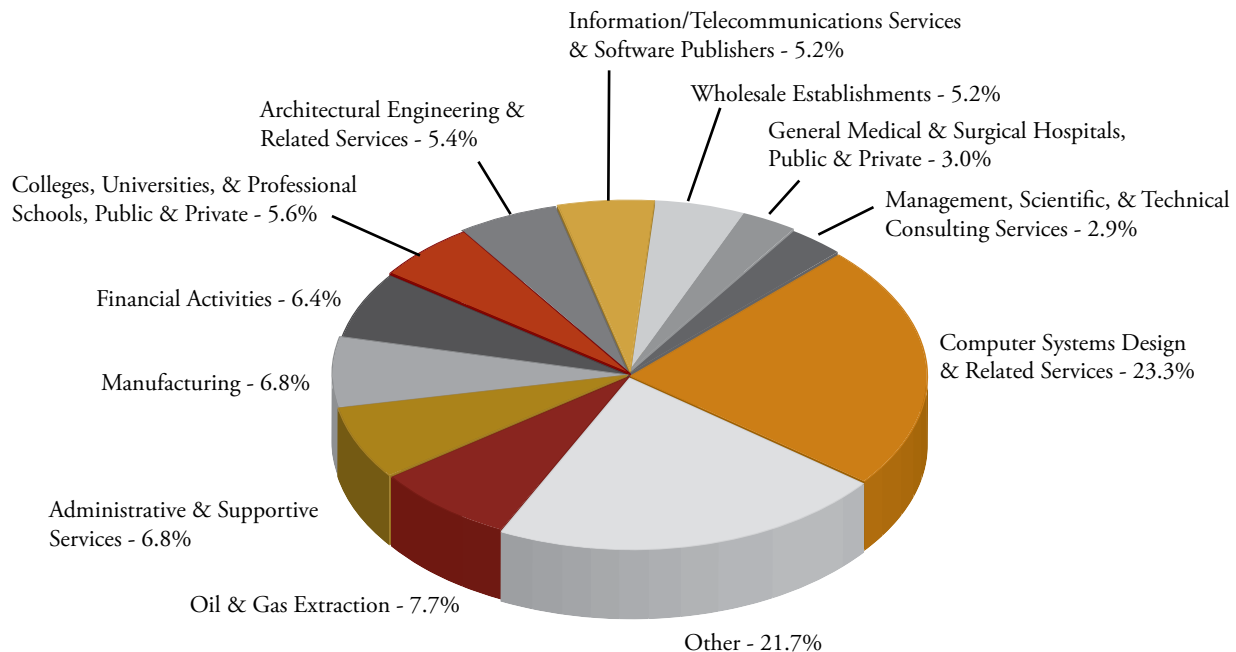*Includes the following counties: Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Harris, Liberty, Matagorda, Montgomery, Walker, Waller, and Wharton.

Workforce Solutions

COMPUTER SYSTEMS ANALYSTS EARN EXCELLENT WAGES!

Average Annual Wages – Golf Coast Region

Bar chart showing All Occupations at $47,255 and Computer System Analyst at $90,495.

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

Computer Systems Analyst - Gulf Coast Region 2020

Pie chart with the following segments:
- Information/Telecommunications Services & Software Publishers - 5.2%
- Wholesale Establishments - 5.2%
- General Medical & Surgical Hospitals, Public & Private - 3.0%
- Management, Scientific, & Technical Consulting Services - 2.9%
- Computer Systems Design & Related Services - 23.3%
- Architectural Engineering & Related Services - 5.4%
- Colleges, Universities, & Professional Schools, Public & Private - 5.6%
- Financial Activities - 6.4%
- Manufacturing - 6.8%
- Administrative & Supportive Services - 6.8%
- Oil & Gas Extraction - 7.7%
- Other - 21.7%

Workforce Solutions

PLAN EARLY TO BECOME A COMPUTER SYSTEMS ANALYST.

To get a job as a computer systems analyst, you generally need at least a bachelor's degree with emphasis in computer science, information systems, or management information systems, and a broad knowledge of a variety of computer systems and technologies. The most marketable computer systems analysts also have a background in another discipline — such as business management, accounting, physics, or engineering — which helps with specialized applications in specific business functions. To be successful as a computer systems analyst, you will need to continually upgrade your skills and knowledge to keep pace with the constant change in technology. Start preparing in high school and take as many chemistry, physics, mathematics, and science classes as you can.

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

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PREPARING FOR A COMPUTER SYSTEMS ANALYST CAREER

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

*Source: AchieveTexas.org

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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
- 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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