

2004 –2014 Occupational Projections

Occupational Title	Minimum Education Requirements	** Total Annual Demand	1 <sup>st</sup> Quarter 2006 Average Hourly Wage
Computer Operators	Mod.-term Tng. & Exp.	50	\$13.21
Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary voc.	40	\$18.95
Computer Support Specialists	Associate degree	100	\$19.19
Network Systems and Data Communications Analysts	Bachelor's degree	120	\$23.26
Computer Systems Analysts	Bachelor's degree	120	28.96
Computer Programmers	Bachelor's degree	80	24.21
Computer Software Engineers, Applications	Bachelor's degree	70	29.49
Computer Software Engineers, Systems Software	Bachelor's degree	50	33.00
Computer and Information Systems Managers	Wk Exp.+ Bachelor's or higher	60	\$35.98

\*\*Total Annual Demand = Demand in the occupation as a function of replacement demand (retirements + turnover) + new growth.

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Occupations in the Spotlight



Computer Systems Analysts



Analyze science, engineering, business, and all other data processing problems for application to electronic data processing

- ◆ Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming
- ◆ Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications
- ◆ Knowledge of principles and processes for providing customer and personal service

Required WorkKeys® Scores:

AM LI RI  
5 5 5

Computer Software Engineers,



Counsel and advise individuals with alcohol, tobacco, drug, or other problems. May counsel individuals, families, or groups or engage in prevention programs.

- ◆ Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software
- ◆ Knowledge of business and management principles

Required WorkKeys® Scores:

AM LI RI  
7 5 5

AM = Applied Mathematics  
LI = Locating Information  
RI = Reading for Information

WorkKeys® assessments give students and workers reliable, relevant information about workplace skill levels. Combined with information about skill levels required for jobs, assessments information can help students make better career and educational decisions. Louisiana uses three WorkKeys® assessments as the foundation for awarding career readiness certificates. For more information, contact the Workforce Education and Training Office at the Louisiana Board of Regents (225-342-4253).

LOUISIANA Opportunities in



*This diverse Career Cluster prepares learners for careers in planning, managing and providing education and training services, and related learning support services.*

FASTEST GROWING JOBS

- 👤 Network Systems and Data Communications Analysts
- 👤 Computer Systems Analysts
- 👤 Computer Support Specialists
- 👤 Computer Programmers
- 👤 Computer Software Engineers, Applications
- 👤 Computer and Information Systems Managers

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"This document was produced as a collaborative endeavor between the Louisiana Departments of Labor, Education and the Board of Regents".

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Auxiliary Aids and Services are available upon request to individuals with disabilities*

## Reference Center:

Louisiana Department of Labor - <http://www.LAWORKS.net>

Occupational Information – go to Career Exploration <https://www.voshost.com/default.asp>

Louisiana Employment Outlook - [http://www.laworks.net/LaborMarketInfo/LMI\\_employmentprojections.asp](http://www.laworks.net/LaborMarketInfo/LMI_employmentprojections.asp)

Louisiana Technical Colleges - <http://www.ltc.edu/home.asp>

Financial Aid- <http://www.osfa.state.la.us/>

Louisiana Board of Regents- <http://www.regents.state.la.us>

Louisiana Community & Technical College System <http://www.lctcs.net/>

ACT <http://www.act.org>

National Career Clusters <http://www.careerclusters.org>



*This brochure is designed to provide assistance to students as they prepare to make decisions about course selection, their career options and future plans.*

**The Career Options Law (Act 1124)** mandates that all high school students have a five-year educational plan and that all high schools offer career majors/areas of concentrations. It is the intent of the law that students have a focus while in school to help make learning more relevant and meaningful.

Students in 6th – 8th grades must complete at least six career awareness activities which help students to develop a five-year educational plan. It also requires school systems to offer areas of concentrations to address students' interests.

**The Five-Year Educational Plan** Students must complete this plan at the end of their 8th grade year with input from their counselor and/or advisor and family. This plan must be reviewed and revised on an annual basis throughout high school with student, parent and counselor/advisor signatures each year.

## TOP EMPLOYING INDUSTRIES

Industry <i>(based on North American Industry Classification System NAICS)</i>	Number		Percent Change
	2004	2014	
Telecommunications	13,352	13,010	-342 -2.6%
Publishing Industries, Except Internet	5,512	5,094	-418 -7.6%
Broadcasting, except Internet	4,736	5,004	268 5.7%

## Information Technology Cluster High School Areas of Concentrations (2007 – 2008)

**Diploma Endorsements** will help provide for students the preparation necessary for college and/or a career. By the same token employers will be getting better prepared workers, and higher education institutions will have students better prepared for success in their post secondary institutions. These endorsements help students to maximize their 11th and 12th grades, encourage more students to take Advanced Placement courses, encourage students to take advantage of career and technical education courses and opportunities, as well as hold high schools accountable for what is taught during the 11th and 12th grades. Students can complete the necessary requirements for two different diploma endorsements:

- Academic Endorsement
- Career and Technical Endorsement

Please see your guidance counselor for further details.

**The Louisiana WORKReady! Certificate** is a portable credential that signifies to an employer that an individual has achieved acceptable levels in the foundation skills necessary for success in the workplace and gives Louisiana citizens a “key to work”. Issued by the Workforce Commission, the Certificate is a tool that helps employers identify qualified candidates to fill the openings they have in their businesses.

People who attain the Certificate, which will display their workplace readiness skill levels, will have an advantage as they pursue their career goals. The Certificate increases the likelihood that business will receive a well-trained, highly skilled worker and that education will prepare students for available jobs. For more information, contact the Workforce Commission at 225-342-2094 or the Board of Regents at 225-342-4253.

### Career Cluster

Information Technology

### Areas of Concentrations

Computer Electronics  
Computer Engineering Systems (Oracle Internet Academy)  
Computer Science  
Information Systems  
NAF – Academy of Information Technology

### Post Secondary Programs

Computer System Networking  
Electronics & Computer Engineering Technology  
Network Specialist  
Applied Computer Science  
Computer Science  
Computer Engineering  
Web Administrator  
Computer & Information Science & Support Services  
Computer and Information Sciences  
Information Systems Applications

### Training Programs Related

#### Certification(s):

IC<sup>3</sup>  
Cisco Certified Internetwork Expert Cert.  
Comp TIA Certification A+  
Mobile Electronics Certification  
Microsoft Certified Professional  
Microsoft Certified Systems Engineer Cisco  
Corel Certified Proficient User  
Microsoft Office Specialist  
Radio Television Technician License  
Oral Certification  
CIW

For more information on course selection visit our

Web site:

<http://www.doe.state.la.us/lde/ssa/currichome.html>