



## CAREER *services* CENTER

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**XAVIER**  
UNIVERSITY

# CAREER OPPORTUNITIES FOR COMPUTER SCIENCE MAJORS

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## SKILLS & ABILITIES OF THE COMPUTER SCIENCE MAJOR

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### Analysis

- Identifying problems
- Thinking logically
- Conceptualizing complex systems
- Solving problems
- Assessing needs
- Reasoning algorithmically
- Testing solutions

### Technical

- Evaluating software and/or systems
- Conducting feasibility studies
- Managing databases
- Designing programs

### Organizing

- Attending to detail
- Coordinating tasks
- Working in teams
- Setting priorities
- Planning complex tasks
- Integrating different approaches

### Communication

- Writing documentation
- Explaining processes
- Writing/understanding computer languages and algorithms
- Describing technical information to non-technical personnel

*\*Partially taken from the University of Kansas University Career Center*

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## POTENTIAL CAREERS

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### Business and Technical

- Technical Support Representative
- Computer Graphics Technician
- Senior Applications Planner\*
- Research and Development Laboratory Programmer
- Strategic Analyst
- Marketing Consultant
- Management Information Systems Corporate Officer
- Product Manager
- Systems Analyst
- Corporate Security Specialist
- Electrical Engineer\*
- Telecommunications Manager

### Research and Development

- Biomedical Engineer\*
- Expert Systems Designer
- Genetic Engineer\*
- Automated Systems Designer
- Intellectual Properties Lawyer\*
- Applications Programmer
- Research Assistant, phototronics
- Demographer
- Statistician\*

*Additional graduate study is generally expected for those occupations marked with an \* on the above list.*

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## POTENTIAL CAREERS (continued)

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### Government and Public

- Communications Control Technician
- Public Health Service Computer Specialist
- Defense Department Equipment Analyst
- Systems Programmer
- Technical Information Specialist\*
- Auditor\*
- Foundation Information Analyst
- Air Traffic Controller\*
- Health Information Database Designer

### Education and Communication

- Professor\*
- Editor, technical journal
- Graphic Artist, computer aided design
- Training Specialist
- Technical Writer
- Teacher, including computer assisted instruction curriculum developer
- Integrated Library Software Designer
- Artificial Intelligence Developer

*Additional graduate study is generally expected for those occupations marked with an \* on the above list.*

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## TYPES OF EMPLOYERS

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- Businesses and Corporations
- State and Federal Government
- Self-Employed
- Schools
- Colleges and Universities
- Non-Profit Organizations
- Military

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## TOP 10 OCCUPATIONS EMPLOYING PERSONS WITH A BACHELORS IN COMPUTER SCIENCE

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Computer programmers	27.5%
Computer systems analysts	22.9%
Computer engineers	12.4%
Top and mid-level managers, executives, administrators	8.1%
Information systems scientists and analysts	6.1%
Other computer and information science occupations	5.6%
Computer scientists, except systems analysts	2.3%
Accountants, auditors, other financial specialists	2.0%
Other management-related occupations	1.7%
Other administrative (e.g. record clerks, telephone operators)	1.4%

*\*Taken*

*\*Taken from The College Majors Handbook (Fogg, Harrington, & Harrington) 2004*

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## RELATED BOOKS IN THE CAREER RESOURCE LIBRARY (GSC 310)

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- *Opportunities in Computer Careers*
- *Opportunities in Laser Technology Careers*
- *Careers in Focus: Computer & Video Game Design*
- *Resumes for Scientific and Technical Careers*
- *Resumes for Computer Careers*