

WHAT CAN I DO WITH MY COMPUTER SCIENCE DEGREE?



Using the Major Sheet:

- Large headings indicate **industry** area and subheadings indicate **employers** within that area.
- Use the titles to search for careers and related careers in order to explore your options within different areas of industry. Note that some career titles have multiple names for similar positions.
- An asterisk (*) notes that additional training (certification, graduate school, high level of experience) may be needed in order to obtain this career. Make sure to thoroughly research career pathways.

PROGRAMMING

Computer Service Co., Software Development Firms, Computer Manufacturers

Operating Systems

- Systems Programmer
- Programmer Trainee
- Software Development Specialist
- Systems Software Developer
- Software Engineer
- Software Integration Engineer
- Computer Programmer
- Software Developer

Applications

- Computer Programmer
- Applications Software Developer
- Scientific Applications Programmer
- Associate Applications Developer
- Software Development Specialist
- Information System Programmer
- Virtual Reality Developer
- Programmer Trainee
- Software Engineer
- Software Integration Engineer
- Firmware Engineer
- Process Control Programmer
- Software Engineer
- Field Systems Technician
- Applications Engineer
- Applications Programmer
- Software Developer
- Software Specialist
- Software Technician
- Applications Analyst

Data Communication

- Data Communications Programmer
- Data Communications Analyst
- Data Communications Spec.

Hardware

- Design Engineer

NETWORK ADMINISTRATION

- LAN Specialist
- Network Administrator
- Communications Specialist
- Systems Administrator
- LAN Administrator
- LAN Analyst
- Systems Consultant
- Network Designer

SYSTEMS ANALYSIS

Management Consulting Firms, Computer Manufacturers, Computer Service Co.

- Systems Analyst
- Computer Analyst
- Programmer/Analyst
- Associate Analyst
- Systems Manager
- Digital Systems Analyst
- Associate Systems Analyst
- Assistant Analyst

DATA PROCESSING MANAGEMENT

Hospitals, Educational Institutions, Manufacturers, Government, Financial Co.

- Data Processing Installer
- EDP Manager
- EDP Systems Sales Rep.
- Data Processing Director
- Data Processor
- Data Processing Manager
- EDP Systems Analyst

SECURITY

Data Processing Co., Banks, Credit Co., Computer Consulting Firms

- ATM Specialist
- Computer Security Consultant
- Computer Security Specialist
- Encryption Specialist
- Security Specialist

DATABASE MANAGEMENT

- Database Administrator
- Data Retrieval Specialist
- Database Specialist
- Database Manager
- Data Administrator
- Data Control Manager

PRODUCT SUPPORT

Hardware/Software Manufacturers

- Service Engineer
- Computer Help Desk Technician
- Field Service Rep.
- Computer Support Specialist
- Computer Repair Specialist
- Customer Engineer
- Technical Support Rep.
- Technical Support Specialist
- Customer Support Specialist
- Software Support Specialist
- Product Support Rep.
- Systems Engineer
- Product Support Specialist
- Technical Support Analyst
- Technical Support Engineer

INTERNET

- Website Engineer
- Website Analyst
- Webmaster
- Online Services Sales Rep.
- Website Programmer
- Cyber Journalist

DIGITAL IMAGING

Software Dev. Co., Educational & Publishing Co., Cable Co., TV Networks, Government

- Digital Graphic Artist
- GUI Designer
- Technical Director
- Special Effects Programmer
- Computer Game Programmer
- Multimedia Producer
- Computer Animator
- Interactive Multimedia Assoc.
- CD ROM Producer
- Clip Art Production Assistant
- Graphics Programmer

DOCUMENTATION / PUBLISHING

Comp. Trade Magazines, Hardware/Software Manufacturers, Publishing Houses

- Technical Writer
- Technical Librarian
- Desktop Publisher
- Textbook Author/Editor
- Documentation Specialist
- Trade Magazine Reporter

SALES

Retail Stores, Manufacturers, On-line Services Co., Computer Learning Centers

- Product Evaluator
- Sales Engineer
- Marketing Representative
- Software Buyer
- Technical Sales Rep.
- Trade Show Organizer

HUMAN RESOURCES

- Technical Recruiter
- Software Talent Agent
- High Tech Head Hunter

EDUCATION

In-house Training Departments, Computer Learning Centers, Computer Training Firms

- Computer Education Specialist
- Internet Instructional Designer
- Training Specialist
- Computer Teacher
- New Product Instructor
- Internet Instructor

Preparation for a Competitive Job Market:

- **Focus on transferable skill sets**, as you pursue a degree in Computer Science.
- **Obtain relevant internship, co-op, or volunteer experiences.**
- **Supplement Computer Science coursework** with **classes** that are **relevant** to your career.
- **Meet with a Career Specialist** to explore options, make decisions, and prepare for career choices.

Additional Career Center Resources:

- **Major Sheets (CMPE, CMSC, ENMG, HCC, IS, MATH):** <http://careers.umbc.edu/tools/major-sheets/>

- **Links by Major:** <http://careers2.umbc.edu/tools/links.php>

- **Vault:** <http://careers.umbc.edu/students/discover/explore-careers-majors/>

-Click on Vault Career Insider portal link and provide UMBC user ID and password

-Select "Guides" to view relevant guides such as:

- "Vault Career Guide to Information Technology"
- "Vault Guide to Engineering Jobs"
- "Vault Guide to Computer Software Jobs"
- "Vault Guide to Nanotechnology Jobs"
- "Vault Guide to Computer Hardware Jobs"
- "Vault Guide to Top Tech Employers"

- **Professional Associations:**

IEEE Computer Society: <https://www.computer.org/web/guest>

Association for Computing Machinery: <http://www.acm.org/>

American Association of Engineering Studies: <http://www.aaes.org/>

National Society of Black Engineers: <http://www.nsbe.org/home.aspx>

Society of Women Engineers: <http://societyofwomenengineers.swe.org/>