

COMPUTER-RELATED FIELDS- Career Resource Guide

Potential Career Options

Below is a sample of related career options; for some, additional experience and/or further education may be helpful or required.

Application Analyst	Support a given application or applications, which may include programming, system administration skills and the ability to analyze a given problem, diagnose and solve it.
Business Systems Analyst	Plan and develop methods for computerizing business tasks or improving existing systems. Serve as link between computer resource center and users.
Cyber Forensic Analyst	Conduct examinations of computers and media generated by computers to develop evidence in support of internal and external investigations in the specialty area of forensic computer science.
Data Analyst	Collect, process and perform statistical analyses of data. Discover how data can be used to answer questions and solve problems.
Help Desk Analyst/PC Support	Provide help desk support, train new users and perform system back up and data recovery.
Network Administrator	Manage an organization's computer networks. Organize, install and provide support for local area networks (LANs), wide area networks (WANs) and intranets.
Quality Assurance Analyst	Develop and execute software test plans, identify and facilitate issue resolution with functional and technical groups, manage software beta test programs and document results.
Systems Administrator	Work with basic computer configuration, help end users, manage backups, troubleshoot network connectivity, administer user accounts, review audit logs, monitor network performance and manage software licenses.
Systems Security Administrator	Create, modify and delete user accounts. Monitor systems security and respond to security incidents. Participate in security system testing. Ensure confidentiality of data.
Web Developer	Engineer internet-specific software to post and update information on websites.

Sample Job Titles

Application Analyst	Help Desk Administrator	Project Manager
Competitive Intelligence Analyst	Information Security Analyst	Quality Assurance Analyst
Cyber Security Specialist	IT Support Specialist	Security Operations Center Analyst
Data Security Analyst/Risk Analyst	Mainframe Programmer Analyst	Software Developer/Engineer
Database Administrator	Network Security Administrator	Systems Administrator
Designer/Developer	Programmer- Enterprise Systems	Tech Sales Engineer

Associations/Societies

Association for Computing Machinery (ACM) *	www.acm.org
Association for Information Science and Technology *	www.asist.org
Black Tech Nation Pittsburgh	www.blacktechnation.com
CompTIA AITP- Pittsburgh Chapter *	www.aitp-pgh.org
CompTIA- The IT Industry Association (AITP)	www.aitp.org
HDI (technical support professionals)	www.thinkhdi.com
HDI Steel City Chapter *	www.hdisteelcity.org
IACIS (The International Association of Computer Investigative Specialists)	www.iacis.com
ISFCE (The International Society of Forensic Computer Examiners)	www.isfce.com
SCIP (Strategic and Competitive Intelligence Professionals) *	www.scip.org
WITI (Women in Technology International) *	www.witi.com

* Contains employment listings

Career Information Resources

Vault is a comprehensive career resource that includes industry and profession overviews; rankings and profiles for employers and internship programs; a job and internship database; career articles, blogs and videos; sample resumes, cover letters and interview questions; and over 100 career guides. A selection of the Vault Guides is listed below.

Vault Guide to...	Computer Software Jobs	Information Technology Jobs
Computer and Video Game Design Jobs	Information Technology (Career Guide)	Internet Services and Security Jobs
Computer Hardware Jobs	Information Technology Consulting Jobs	Top Tech Employers

Refer to the [CSSPD website](http://www.csspd.com) for links to Vault, the Career Development Tip Sheets, and Handshake (jobs, career paths & events).

Selected RMU Activities & Organizations

Alpha Iota Mu (information systems honor society)
Association of Computing Machinery
Criminal Justice Society

Society for the Advancement of Management
Toastmasters Club
Top Secret Colonials (cyber forensics)

Career & Employment Websites

Computerjobs.com
Computerwork.com
ComputerWorld
CyberSeek (Career Pathway)
Dice (technology professionals)
GitHub Jobs
icrunchdata (technology, analytics, and data-related jobs)
National Cyber-Forensics and Training Alliance (NCFTA)
O*NET OnLine
Occupational Outlook Handbook – Search Computer and Information
Technology Occupations
Pittsburgh Career Connector (Pittsburgh Technology Council)
Tech Careers

www.computerjobs.com
www.computerwork.com
www.computerworld.com
www.cyberseek.org
www.dice.com
https://jobs.github.com
www.icrunchdata.com
www.ncfta.net
www.onetonline.org
www.bls.gov/ooh/computer-and-information-technology

www.pghcareerconnector.com
www.techcareers.com

Refer to www.rmu.edu/cpdc for a link to the Internet Tip Sheet (general job search websites) and Handshake (job postings and events).

Bachelor-Level Internship Organizations

Ariba, Inc.
Best Buy
Citizens Bank
Consol Energy
Covestro
Disney
Duquesne Light Company
FBI-Cyber
Federated Investors, Inc.
FedEx
Highmark Health Solutions
Hiperos, LLC
IBM
IntegraOne
LunaMetrics
Management Science Associates

Michael Baker International
Mylan
National Cyber-Forensics & Training Alliance
PLS Logistics Services
Plus Consulting
PNC Bank
PNC Financial Services Group
Questeq
Robert Morris University- IT
Schneider Downs
SDLC Partners
ServiceLink
Software Engineering Institute
United States Steel Corporation
UPMC
Virtual OfficeWare

Bachelor-Level Hiring Organizations

ABB
ADP
Alcoa Electric
ALKU Government Solutions
Allegheny County Department of Human Services
Apogee IT Services
BAE Systems
Bayer Pharmaceuticals Radiology
BDO USA, LLP
Blue Bastion
BNY Mellon
Carnegie Mellon University
Consolidated Communications
Continuum Managed Services
creehan & company
Decision Resources, Inc.
Department of Veterans Affairs
Development Dimensions International (DDI)
Dick's Sporting Goods
Direct Energy
Duo Security
Eaton
Expedient
Federated Investors
FedEx/FedEx Ground
Gateway Behavioral Health Services

General Electric Digital
HM Health Solutions
Ideal Integrations
Intertech
Mylan
North Central Cyber Protection Center
Northrup Grumman
NTT Security
People's Natural Gas
Philips Sleep and Respiratory Care
Pitt Ohio
Plus Consulting
PNC Financial Services
Pocket Nurse
PPG Industries, Inc.
Questeq
Reed Smith LLP
ShowClix
Solutionary
Township of Upper St. Clair
United States Department of Agriculture
United States Steel Corporation
UPMC
Vitalant
Wombat Security
Zions Bancorporation