SOFTWARE / IT

in New York's Capital Region



The Capital Region's Software IT employs more than 9,900 and includes some of the nation's most advanced software R&D firms and computer science research centers. Together – and coupled with the region's affordability and quality of life – they have helped it be named one of the **Best Places to Find a Technology Job** by *U.S. News & World Report*. Local colleges and universities annually spend more than \$15 million on computer sciences R&D and major regional research centers include **IBM's Artificial Intelligence Hardware Center at SUNY Polytechnic Institute** and **Rensselaer Polytechnic Institute's Center for Computational Innovations**, which houses the 24th most powerful supercomputer in the world.



Jahnel Group

JOBS (2019)

- > 9,900 Software / IT Cluster jobs (↑11% over 5 years)
 - 3,900+ Computer Systems Design Services
 - 2,800+ Custom Computer Programming
 - 330+ Digital Gaming
 - · 1,500 Data Process and Hosting
 - 1,300+ Software Publisher Jobs
 - 230+ Other Computer-Related Services
 - 140+ Computer Facilities Management Services

R&D ASSETS

- University R&D Expenditures (2018)
 - \$15.4M in computer and IT science

SUNY Polytechnic

- IBM Artificial Intelligence Hardware Center
- New York State Data Center

► Rensselaer Polytechnic Institute

- Center for Computational Innovations (CCI)
 - 8 petaflop IBM POWER9-equipped AI supercomputer (AiMOS)
- Rensselaer Institute for Data Exploration and Applications (IDEA)
- Scientific Computation Research Center (SCOREC)
- RPI Digital Gaming Hub

University at Albany

- College of Emergency Preparedness, Homeland Security and Cybersecurity
- Institute for Informatics, Logistics, and Security Studies
- Atmospheric Sciences Research Center
- NYS Mesonet
- College of Engineering and Applied Sciences

TALENT PIPLINE (2018)

► 1,037 computer and IT sciences degrees awarded, including 153 master's and 19 doctor's degrees



- UAlbany College of Emergency Preparedness, Homeland Security and Cybersecurity: Nation's first standalone college dedicated to the topics of emergency preparedness, homeland security and cybersecurity
- RPI Games and Simulation Arts and Sciences (GSAS):
 Ranked the 5th Best Game Design School in the East by
 Animation Career Review
- ► Albany Can Code: Nonprofit that trains nontraditional students in coding
- ➤ Capital Region Pathways in Technology Early College High School (P-TECH): Program that allows students to earn both high school diplomas and associate's degrees in computer science, computer information systems and cybersecurity
- Software Industry Apprenticeship Programs: CEGadministered apprenticeship program for software developer, data analyst and computer support technician positions, offered through Albany Can Code and SUNY Schenectady
- NY Tech Loop: Nonprofit association dedicated to attracting talent, supporting startups, and promoting the software community
- Al Center of Excellence: A hub for Al education, envisioning, co-working and an Al hardware development lab







INDUSTRY ASSETS

AI/MACHINE LEARNING

- Dumbstruck, Schenectady: Emotional intelligence software for advertising
- International Electronic Machines, Troy: Software solutions for vehicle inspection, security monitoring, maintenance activities, ect.
- · GE Global Research, Niskayuna: Al and machine learning for industrial processes and computer vision
- IBM, Albany: Al hardware lab

CYBERSECURITY/NETWORK SECURITY

- · ADKtechs, Argyle
- Center for Internet Security, East Greenbush
- · Datto, East Greenbush
- GreyCastle Security, Troy
- · Leet Cyber Security, Albany
- · OrbitalFire, Queensbury

DATA STORAGE/HOSTING/MANAGEMENT

- Logical Net Corp., Schenectady
- · Saratoga Data System, Saratoga Springs
- Stored Technology Solutions, Queensbury
- · Zones Nfrastructure, Clifton Park

DIGITAL GAMING

- 1st Playable Productions, Troy
- · Network Next, Troy
- PUBG MadGlory, Saratoga Springs
- Velan Studios, Troy
- Vicarious Visions, Albany
- WB Games NY, Troy
- Wolfjaw Studios, Saratoga Springs

E-COMMERCE/SUPPLY/INVENTORY

- · CommerceHub, Albany: Cloud-based ecommerce fulfillment and marketing solutions
- Valogix, Saratoga Springs: Inventory planning, demand planning, & supply planning, forecasting and inventory

E-DISCOVERY/E-RESEARCH ADMINISTRATION

- InfoEd Global, Albany
- Knowledge Builders, Albany
- · Rational Enterprise, Albany

GOVERNMENT/SCHOOL

- Educational Vistas, Schenectady: School district management systems and associated web-based software products
- **Gcom Software**, Albany: Government regulatory and inspection automation, customer engagement, and criminal justice solutions
- Transfinder, Schenectady: School bus tracking and routing solutions for schools
- Tyler Technologies, Latham: End-to-end information management solutions and services for local governments

HEALTHCARE/MEDICAL

- 3M Health Information Systems, Albany: Healthcare solutions for payors and providors
- CMA Consulting Services, Latham: Systems integration and case management services
- Ilum Health Solutions, Albany: Clinical machine learning for hospital pathogen warning systems
- Levrx, Troy: pharmacy spend management software
- RGI-Informatics, Cornwallville: Health analytics for dynamic analytics and clinical quality metric analysis
- · Virtual Phantoms, Albany: Fast medical radiation dose computing software

INDUSTRY-SPECIFIC BUSINESS SOFTWARE

- Auto/Mate Dealership Systems, Albany (Auto dealerships)
- Bestpass, Albany (Trucking/toll management)
- · Construction Industry Solutions, Latham (Construction and engineering)
- ECI Software Solutions, Latham (Building supply)
- Epicor, Schenectady (Manufacturing, distribution, retail, and services organizations)
- Execontrol, Clifton Park (Manufacturing, retail, distribution, services)
- Ithos Global, Troy (Cosmetics and nutrition industries)
- InspectPoint, Troy (Fire/Life Safety Inspection Software)

OTHER

- · Building Footprints USA: High-accuracy location data for locating, analyzing and visualizing critical business information
- · Nielsen Gracenote: Entertainment data
- · Passport for Good: Volunteerism tracking

R&D

- First Drops, Troy: Water leak monitoring IoT
- GE Global Research, Niskayuna: Imaging, cybersecurity, network security, robotics, ect.
- Glauconix Biosciences, Albany: Ex-vivo, dynamic 3D human tissue models
- · Kitware, Clifton Park: open-source software R&D
- Simmetrix: Component software for simulation-based

SOFTWARE DEVELOPMENT

- Bespoke Software, Albany
- · Gavant Software, Troy
- Osprey Software, Albany Troy Web Consulting, Troy
- MM Hayes, Menands
- · CommSoft, Rensselaer
- · Jahnel Group, Schenectady
- Railroad 19, Saratoga Springs
- · Conduent, Albany

