

LIFE SCIENCES

in Albany/New York's Capital Region

updated April 2024



The heartbeat of New York's life sciences industry is heard loud and clear in the Capital Region. We are an innovation powerhouse that Thomas Edison helped establish more than a century ago. Building on this solid foundation are cutting-edge companies such as **Regeneron Pharmaceuticals, Curia, GE Healthcare, and Philips Healthcare**. These companies – and dozens more – benefit from a vast talent pipeline and R&D infrastructure, including **the University at Albany, Albany College of Pharmacy and Health Sciences (ACPHS) and Rensselaer Polytechnic Institute (RPI)**. This unique mix of R&D and manufacturing capabilities makes the Capital Region a bench-to-bedside model.



Regeneron

R&D

- **\$58.3M** in annual NIH awards (FY 2023)
- **\$96.4M** university Life Sciences R&D spending (FY 2022)

ESTABLISHMENTS (2022)

- **115** Life Sciences Cluster payroll establishments
- **28** FDA-registered medical device establishments
- **27** FDA-registered drug establishments
- ▶ **6** Active Pharmaceutical Ingredient Manufacturers – most in NYS

EMPLOYMENT (2022)

- **6,397** jobs in Life Sciences Cluster
 - ▶ **3,901** jobs in related Pharmaceutical and Medicine Manufacturing
 - ▶ **1,676** jobs in Medical Equipment and Supplies Manufacturing
- **6,502** jobs in the Physical, Engineering, and Biological Research industry
 - ▶ **24th** Top Life Sciences Research Talent Clusters: Albany-Schenectady-Troy MSA (CBRE)



RPI Center for Biotechnology and Interdisciplinary Studies

TALENT PIPELINE (2022)

- **11** institutions awarding degrees in Biological and Biomedical Sciences
 - ▶ **698** degrees annually awarded
- **18** institutions awarding degrees in Health Professions and Related Programs
 - ▶ **2,004** degrees annually awarded

MAJOR R&D ASSETS

- **Albany College of Pharmacy and Health Sciences**, Albany
- **Albany Medical Center/College**, Albany
- **Accelerator for Medical and Pharmaceutical Sciences (AMPS)**, Albany
- **Functional and Integrative Tissue Generation Center at UAlbany College of Nanotechnology, Science and Engineering**, Albany
- **GE Global Research**, Niskayuna
- **Neural Stem Cell Institute**, East Greenbush
- **NYS DOH Wadsworth Center**, Albany
- **Regenerative Research Foundation**, East Greenbush
- **Rensselaer Polytechnic Institute Center for Biotechnology and Interdisciplinary Studies (CBIS)**, Troy
- **RNA Institute**, Albany
- **Skidmore College Center for Integrated Sciences (CIS)**, Saratoga Springs
- **Stack Family Center for Biopharmaceutical Education and Training (CBET)**, Albany
- **Union College Integrated Science and Engineering Complex (ISEC)**, Schenectady
- **University at Albany Center of Excellence in RNA Research and Therapeutics**, Albany and Rochester
- **University at Albany Center for Functional Genomics**, East Greenbush

LIFE SCIENCES CLUSTER COMPANIES (*FDA-registered establishments)

DRUG MANUFACTURER

- **AgroChem***, Saratoga Springs: Chemicals and formulated products for farm animal hygiene
- **Ames Goldsmith***, Glens Falls: Silver nitrate
- **Biomed Innova***, Albany: cGMP/GLP laboratory/CRO for product formulation, chemistry testing
- **Haleon***, East Durham: Toothpaste
- **N-Molecular***, Colonie: Positron emission tomography drug production
- **Purina Animal Nutrition***, Guilderland Center: Medicated animal feed
- **Regeneron Pharmaceuticals***, East Greenbush: Pharmaceuticals
- **Surpass Chemical Company***, Albany: Animal medications
- **Westway Feed Products***, Albany: Medicated animal feed
- **Curia***, Guilderland, Rensselaer: Pharmaceuticals and contract research
- **PETNET Solutions***, Albany: Tomography drug production

R&D/CLINICAL TESTING SUPPORT

- **Applied BioPhysics**, Troy: Real-time automated cell-based assays powered by the technology of ECIS
- **Cady Research Group**, Albany: Nanotechnology for biosensors & bioinspired electronics
- **ConSynance Therapeutics**, East Greenbush: Clinical-stage rare CNS disease (Prader-Willi Syndrome)
- **Criterion**, Saratoga Springs: phase I-IIIb clinical services, including monitoring, statistics, and BA/BE studies
- **Early Alzheimer's Diagnostics**, Glenmont: Raman spectroscopy Alzheimer's detection
- **Epic Airway Systems**, Schenectady: Intubation technology
- **Integrated Tissue Dynamics (INTiDYN)**, East Greenbush: Complex tissue evaluations
- **The Institute for Clinical Pharmacodynamics**, Schenectady: Antimicrobial reduction solutions
- **MIR Scientific**, Rensselaer: miRNA/snoRNA detection for prostate cancer prediction
- **Pharmapotheca A**, Delmar: ADHD treatments
- **Pulmokine**, East Greenbush: Inhalable pulmonary drugs
- **Regenerative Solutions**, Slingerlands: synthesized sorbents for PFAS stabilization in soil
- **Sangali**, Albany: spectroscopic characterization of wood-based materials
- **Stem Cultures**, East Greenbush, controlled-release reagents that provide a stable micro-environment for improved cell growth
- **sxRNA Technologies**, Albany: Novel RNA regulatory mechanisms for biomedical applications
- **Taconic Biosciences**, Albany, Germantown: Commercial animal model vendor
- **Vascular Vision Pharmaceuticals**, Wynantskill: Pre-clinical evaluation for drug development
- **VEC Technologies**, East Greenbush: Cultured vascular endothelial cells and cell culture products
- **YDS Pharmatech**, Albany: AI and biophysics simulations for lead compound discovery

IMAGING AND SOFTWARE

- **EndoSoft**, Schenectady: Electronic Healthcare Record and AI for polyp detection and sizing
- **Intelligent Medicine**, Schenectady: Modeling and simulation solutions for emerging medical procedure
- **Humonix Biosciences**, Albany: Glaucoma drug screening technology
- **IPACES**, Ballston Lake: Neuro-exer game for Alzheimer's and related dementia
- **ITrakNeuro**, Albany: AI hardware and software solutions for MRI and angiography analysis
- **Kitware**, Clifton Park: Open-source medical visualization and data
- **Virtual Phantoms**, Albany: Radiation dose modeling
- **pRxision**, Saratoga Springs: AI-powered, infectious disease/medical record continuous monitoring
- **ZephyRx**, Albany: End-to-end remote respiratory monitoring solutions

MEDICAL DEVICE MANUFACTURER

- **Accumetra***, Clifton Park: QIBA lung nodule profile calculator
- **Healgen Scientific**, Kinderhook: Immunoassay test kits
- **AngioDynamics**, Latham: Minimally invasive medical devices
- **BD BARD***, Queensbury: Catheters and ports
- **Delcath Systems***, Queensbury: Chemotherapy systems
- **Extreme Molding***, Watervliet: Food-grade silicone molding & medical silicone injection molding
- **GE Healthcare**, East Greenbush: Digital X-Ray detectors
- **Image Owl***, Greenwich: Cloud-based solutions for diagnostic medical imaging and radiotherapy quality assurance
- **Integrated Medical Technologies***, Troy: Caps for vials, pharmaceutical bottles and test tubes
- **Medline Industries***, Glens Falls: Minimally invasive medical devices
- **Medtek Skin Care***, Hudson Falls: UV dermatological lights
- **Aptyx**, South Glens Falls: Balloons, catheters, cuffs, single-use medical devices
- **Next Advance**, Troy: develops instruments for molecular biologists, including tissue homogenizers and blot processors
- **Phantom Laboratory***, Greenwich: High-precision phantoms for medical imaging and radiation therapy
- **Philips Healthcare**, Latham: MRI magnets
- **Praxis Powder Technology***, Queensbury: Titanium implantable devices
- **Revivo Medical**, Loudonville: Spinal fusion medical device
- **Sterigenics***, Queensbury: Medical sterilization
- **SupreMEtric**, Albany: Raman Hyperspectroscopy for early-stage Alzheimer's detection
- **Vyv**, East Greenbush: LED disinfectant lighting



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