The heartbeat of New York’s life sciences industry is heard loud and strong in the Capital Region. We are not only the “birthplace of innovation” that Thomas Edison established more than a century ago – the region is also home to the legacy of medical equipment manufacturing in “Catheter Valley” during and after World War II. Building on this solid foundation are cutting-edge companies such as Regeneron Pharmaceuticals, Albany Molecular Research Inc., GE Healthcare, GE Global Research and AngioDynamics. These companies – and dozens more – benefit from a vast talent pipeline and R&D infrastructure, including SUNY Polytechnic Institute, the University at Albany and Rensselaer Polytechnic Institute. This unique mix of R&D and manufacturing capabilities makes the Capital Region a bench-to-bedside model.

R&D (2018)

• $76.9M in annual NIH awards

• $126.7M university life sciences R&D expenditures

• 284,000 ft² university R&D space

• 153 drug/biological composition/body treating composition patents with local listed investors awarded (2015-2017)

• 342 pharma industry-funded new clinical trials for drug interventions with local locations (2014-2018)

EMPLOYMENT (2018)

• 5,883 jobs in Life Sciences Cluster
  ➤ 5,675 additional jobs in related R&D in the Physical, Engineering, and Life Sciences industry

• 14th most Pharmaceutical and Medicine Manufacturing jobs among U.S. metro areas

• 10th most R&D in the Physical, Engineering, and Life Sciences jobs among U.S. metro areas

• 1st Highest concentration in Warren County for Medical Equipment and Supplies Manufacturing jobs among US counties (Q3 2018)

TALENT PIPELINE (2018)

• 10 institutions awarding degrees in Biological and Biomedical Sciences
  ➤ 613 degrees annually awarded

• 19 institutions awarding degrees in Health Professions and Related Programs
  ➤ 1,917 degrees annually awarded

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**Major R&D Assets (10-Year NIH Awards Total)**

1. Albany College of Pharmacy and Health Sciences ($9.4M)
2. Albany Medical Center/College ($100.9M)
3. Biomedical Accelerator and Commercialization Center (BAAC)
4. NYS DOH Wadsworth Center ($115M)
5. SUNY Polytechnic Institute ($5.2M)
6. University at Albany UAlbany ($87.5M)
7. Regenerative Research Foundation ($13.8M)
8. Rensselaer Polytechnic Institute ($79.4M)
9. GE Global Research ($43.9M)

**Medical Equipment and Supply Manufacturers**

10. AngioDynamics (HQ): minimally invasive medical devices
11. Nobilium: dental prosthetic materials and equipment
12. PiSA BioPharm: sterile injectables and specialized biomedical supplies
13. Precision Valve and Automation: automated and manual dispensing and spray coating equipment, pumps, valves, and needle tips
15. Integrated Liner Technologies: caps for vials, pharmaceutical bottles and test tubes
16. Ultradian Diagnostics: wearable biosensors
17. Vital Vio: LED disinfectant lighting
18. Rejuveness: scar removal and scar treatment products
19. Specialty Silicone Products: platinum-cured silicones
20. AngioDynamics (Queensbury MFG Facility): minimally invasive medical devices
22. Becton Dickson: catheters and ports
23. Delcath Systems: chemotherapy systems
24. Praxis Technology: titanium implantable devices

**Pharmaceutical Manufacturing**

25. Glaxo SmithKline
26. Regeneron Pharmaceuticals

**Contract Research Organizations**

27. AMRI
28. ConSynance Therapeutics
29. Pulkomine
30. Vascular Vision Pharmaceuticals

**Clinical Testing Support Services**

31. VEC Technologies: cultured vascular endothelial cells and cell culture products
32. Taconic Biosciences: commercial animal model vendor
33. Integrated Tissue Dynamics (INTiDYN): complex tissue evaluations
34. Hudson Valley Lyomac: Manufacturers freeze driers (#lyophilization equipment)
35. Institute for Clinical Pharmacodynamics: antimicrobial risk mitigation

**Imaging and Software**

36. Philips Medical Systems: MRI components
37. Glauconix Biosciences: ophthalmic ex-vivo dynamic 3D human tissue models
38. ILÜM Health Solutions: enterprise-wide disease management tools and services
39. Virtual Phantoms: radiation dose modeling
40. Kitware: medical visualization and data processing software developer
41. GE Healthcare: X-ray detectors

*FY2010-FY2019