



Biosciences & Medical Devices

Central

Virginia

CENTRAL VIRGINIA offers a vibrant business environment with a highly qualified workforce in an ideal location with room for growth and expansion. The University of Virginia is increasingly focused on supporting enterprising faculty and innovative entrepreneurs as they discover, invent, and develop new technologies. The upshot is a dynamic entrepreneurial ecosystem that attracts the best and the brightest and offers opportunities for companies seeking access to expert faculty and advanced research and technology.

Demonstrated Record of Success

- Greater Charlottesville has the highest concentration of life sciences organizations in Virginia and is home to more than 75 companies. Industry leaders have come together to form a collaborative regional community - **CvilleBioHub**.
- **HemoShear Therapeutics** discovers novel biological targets and advances drug programs to treat metabolic disorders with significant unmet patient need.
- The **Focused Ultrasound Foundation** is a nonprofit foundation working to provide patients with this non-invasive, life-changing treatment option in the shortest time possible.
- **BIO-CAT**, the largest custom blender of enzymes in the nation, expanded in Louisa County in conjunction with the company's 25th year of business.
- **MicroAire** designs, manufactures, and distributes highly specialized orthopedic surgical instruments to a global marketplace, all from its facility in Central Virginia.
- A leading global clinical contract research organization, **PRA Health Sciences** provides a full spectrum of services in Phase I-IV clinical trials including bioanalytical lab services.
- **ADial** develops novel prescription medications for addiction and related disorders, specifically alcohol use disorder.
- **Diffusion Pharmaceuticals'** lead drug, TSC, has shown increased brain cancer patient survival at two years.
- **INDOOR Biotechnologies**, an immunodiagnosics company specializing in allergy, asthma, and indoor air quality, began as a University of Virginia start-up and now has an office in the UK and sales across the globe.
- Operating a cGMP manufacturing facility, **A ton Scienti ic** offers aseptic filling and terminal sterilization services for liquids and container-closures.



BIO-CAT

Access to Research and Higher Education

- The University of Virginia (UVA) produces innovative research discoveries with the potential to address critical issues in medicine and the life sciences and offers access to world class faculty experts.
- Consistently ranked in the top 5 public universities by U.S. News & World Report, UVA has sponsored research awards totaling more than \$437 million annually.
- UVA Licensing & Ventures Group provides support for entrepreneurs and partners with start-ups and businesses to commercialize breakthroughs in technology.
- UVA School of Medicine is ranked 19th for primary care and 31st for research by U.S. News and World Reports.
- Two research parks support the University's academic and research activities and foster relationships with commercial and industrial interests. North Fork - A UVA Discovery Park, a 562-acre, fully master planned, mixed-use development, is located less than one mile from the Charlottesville-Albemarle Airport, and the Fontaine Research Park, a 54-acre, master planned development, is adjacent to the University's central grounds.



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Talented and Prepared Workforce

- High educational attainment: 57% of Charlottesville and Albemarle County have at least a Bachelor's degree.
- Over 680 students complete biosciences degrees annually in fields such as biochemistry, bioengineering, medicine, neuroscience, and pharmacology.
- Local average wages are 12% less than Virginia and 32% less than Northern Virginia.
- Large eight county and one city labor pool with projected growth of 4% by 2025.
- Underemployed seeking opportunities; potential retention of out-commuting workforce.
- Piedmont Virginia Community College (PVCC) and Germanna Community College (GCC) offer courses of study in biotechnology, science, engineering, health information management, nursing, and surgical technology as well as customized industry training to meet company-specific needs.



Insulin regulating smartphone app

Access to Capital

- Central Virginia is home to a number of active private investors and their substantial assets, networks, and expertise.
- The Virginia Biosciences Health Research Corporation, a public/private partnership, stimulates industrial partnerships and increased corporate-sponsored research, develops high-value patents, and fosters new start-up companies.
- HemoSonics, BrightSpec, Rivanna Medical, Virginia Diodes and other Central Virginia firms received SBIR/ STTR grants and contracts.

A Record of Start-Up Successes

- **ADial Pharmaceuticals**
addiction disorder medicines
- **Afton Scientific**
sterile product processing
- **AMPEL BioSolutions**
biomedical research consultation
- **Abbot Rapid Diagnostics Informatics, Inc.**
rapid diagnostics
- **BrightSpec**
residual impurity analysis
- **Diffusion Pharmaceuticals**
drugs for cancer
- **HemoShear Therapeutics**
drug discovery, human relevant systems
- **Cerillo**
management of critical bleeding/clotting
- **INDOOR Biotechnologies**
environmental allergen detection systems
- **MicroAire**
orthopedic surgical instruments
- **Contraline**
contraception solutions
- **RioGin**
improving pharmacokinetic properties of peptide drugs
- **Rivanna Medical**
instrument guided epidural
- **Locus**
remote at-home medical monitoring
- **TearSolutions**
dry eye disease treatment

Central Virginia Biosciences Quick Facts

Number of Firms	139
Number of Workers	2,956
Annual UVA Sponsored Research Awards	\$437 million

Make Central Virginia the location for your *Bold Venture!*



Helen Cauthen, President

Central Virginia Partnership for Economic Development

1001 Research Park Blvd, Suite 301 | Charlottesville, VA 22911

434.979.5610 | hcauthen@centralvirginia.org

centralvirginia.org

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 @CVaPartnership