

Vision

An integrative research and education enterprise that is oriented toward service, is actively managed and directed by the constituency it serves, and is focused on providing leadership and excellence to the scientific and technological areas of bioelectronics, biosensors and biochips.

Mission

The Center for Bioelectronics, Biosensors, and Biochips at Clemson University is dedicated to excellence in research and development of engineered biosystems in the service of human health and medicine

Contact

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C3B History

The Center for Bioelectronics, Biosensors and Biochips was officially dedicated in October 2000 as a center for research and development of engineered biosystems at Virginia Commonwealth University in Richmond, Virginia. In less than five years, the C3B established a well deserved reputation for innovative and multidisciplinary research through its collaborative efforts with other university departments and by earning research grants from government agencies such as the National Science Foundation and Department of Defense. In January 2006 the Center joined the innovative research environment of the College of Engineering and Science at Clemson University, an academic institution committed to its research success. The C3B is currently located in 5,000 sq. ft. of newly renovated laboratory and bio-clean room facilities, and offices in the Clemson University Research Park in Anderson County, South Carolina.

21st Century Research Revolution

As we enter the 21st century, advances in genomics, nanotechnology, biomaterials and computing are revolutionizing the process of biotechnology research. For example, the National Institute of Health has recognized that traditional research methods should be supplemented with an interdisciplinary research approach, *“one that broadens the scope of investigation into biomedical problems, yields fresh and possibly unexpected insights, and may even give birth to new hybrid disciplines that are more analytically sophisticated.”* (<http://nihroadmap.nih.gov/interdisciplinary/>) The C3B is well positioned to conduct interdisciplinary research through its collaborations with other Clemson research centers and departments, as well as with other universities. For an overview of C3B’s research, please see the enclosed “Platform Projects” sheet.

State-of-the-Art Research Facilities at Clemson University

The 5,000 sq. ft. C3B labs are well-equipped with the latest test and measurement tools to conduct scientific inquiry into biosensors, biochips and signal processing platforms. In addition to its academic collaborations, the C3B is also a part of a broader network of inter-organizational research capabilities located in the Clemson region.

People

Under his leadership, **Professor Anthony Guiseppi-Elie** has created a stimulating research and learning environment for post-doctoral researchers, Ph.D. and M.S. research assistants, and undergraduate engineering students. The C3B research is guided by faculty members drawn from different departments and across different schools of the University. An external advisory board representing the industry constituency provides additional insights and guidance. For bibliographical summaries of the C3B members, please see the “Biographical Profiles” sheet. Additional items from the C3B media kit can be accessed through our website at www.biochips.org.