CENTER FOR BIOMEDICAL SCIENCE AND ENGINEERING (CBSE)

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The Center for Biomedical Science and Engineering (CBSE) is a multidisciplinary research center with a mission to research and develop advanced biomaterials and biomedical devices for the repair and regeneration of bone and soft tissues.

The objectives of the CBSE are to:

• Promote interdisciplinary collaboration that enhances the rate of scientific discovery and technological advances to develop the next generation of biomaterials and biomedical devices
• Enhance facilities and equipment for research in biomaterials and biomedical devices
• Develop research and education programs to train the next generation of biomedical/biomaterials engineers, providing a future workforce for the vital biotechnology industry in Missouri and the US
• Promote technology transfer and entrepreneurship to commercialize new knowledge, which should improve patient outcomes and expand economic development in Missouri and the US

Key research and development areas include:

• Bioactive glass science and engineering
• Biomaterials for bone repair, wound healing and tissue engineering application
• Nanoparticles for drug delivery and cancer detection
• Biomarkers for early detection of cancer
• Biosensors and bioimaging devices to monitor tissue healing and healthcare
• Biofabrication of implants and medical devices

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