

What Can We Offer

Vivonics comprises a core group of engineers and scientists specializing in a wide range of disciplines.

These disciplines include:

- Biomedical Engineering
- Mechanical Engineering
- Electrical Engineering
- Software Engineering

Our team is enhanced by a network of world-class clinical and academic collaborators.

State-of-the-art prototype development and electronics fabrication labs on site.



Additional facilities available via arrangement with the Massachusetts Medical Device Development (M2D2) Center.

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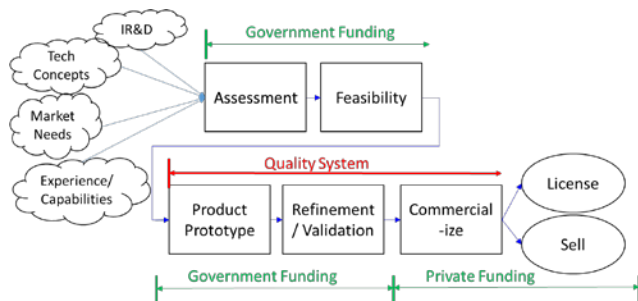
Our mission is to develop innovative technology to enhance human health and performance.

History

In 2012, Vivonics was founded by Gordon B. Hirschman, then Executive Vice President and manager of the Biomedical division of Infoscitex Corporation (IST). Vivonics acquired all the intellectual property assets of the IST Biomedical division and hired the entire technical staff. The continuity of operations from IST to Vivonics provides a history of innovation reaching back to 2005.

How We Operate

Working in collaboration with leading academic and clinical researchers, Vivonics engineers develop innovative solutions to unmet needs and work to transition these innovative concepts to commercialization. Maturing technologies follow a rigorous design methodology to prepare them for regulatory approval.



Sponsors and Customers

Vivonics leverages government funding from the DOD and civilian agencies, such as the NIH to address military medical and performance needs as well as medical needs of the broader civilian population.



Success Stories

- Vivonics owns more than 12 patents, and is continuously developing and protecting new intellectual property.
- Vivonics developed a novel approach for microfluidic blood oxygenation, suitable for use in an artificial lung and respiratory assist devices, and has sold the technology to Lung Biotechnology, PLC, which is continuing the development.
- Vivonics, along with its collaborator the Mayo Clinic, have licensed the use of its Galvanic Vestibular Stimulation (GVS) intellectual property to vMocion for the purposes of improving virtual reality and motion simulation systems.

Current Developments

Vivonics is currently developing several technologies including:

- Devices for diagnosing traumatic brain injury (TBI) in far-forward military settings
- Improved technologies for prosthetic sockets that join lower limb prostheses with the amputee's residual limb.
- Technologies to monitor and mitigate factors leading to diabetic foot ulceration
- Smart mobile apps to help in the management of critical pediatric populations
- Wearable physiological monitoring electronics that transmit data wirelessly.

