



University of
Pittsburgh

Office of Innovation
and Entrepreneurship

Powering Invention Igniting Progress

Relentless Quest

The University of Pittsburgh continues its relentless quest for discovery across a wide spectrum of disciplines. Discover some of the latest technologies from Pitt innovators.

Aneurisk

A machine learning-based methodology that predicts rupture risk in abdominal aortic aneurysm by training an aneurysm prognosis classifier on small aneurysms, tracking changes in the shape and biomechanical indices over time, providing a more comprehensive risk score for clinicians to decide on surgical intervention.

Deep Brain Stimulation System

A deep brain stimulation system, comprising implanted electrodes, a pulse generator, and software to adjust stimulation parameters, can improve speech and upper extremity function by addressing facial weakness, offering both assistive and rehabilitative benefits.

Ejaz Flap BioReactor

A unique Bioreactor to prolong the viability of human tissue, for testing and research purposes, through unique control of perfusion cocktails.

EndoDx

A non-invasive machine learning tool designed to identify risk, presence, and stage of endometriosis, which currently affects 10% of women worldwide and is diagnosed through an expensive and often inconclusive surgical laparoscopy.

Mobius

Mobius is an adaptable rail system that is used in place of decorative architectural molding throughout the home and serves as an anchor point for a range of accessibility components. After the system is adapted for the functional needs of the user, it can serve as a whole-home accessibility solution helping them move safely within and between rooms in the home, including their bedroom, kitchen, and bathroom.

MyBP

MyBP, is an automated program designed for routine and flexible home blood pressure monitoring, has been shown to improve patient engagement, confidence, and healthy behaviors, as well as lower blood pressure in patients with uncontrolled hypertension.

PENY

PENY is an app to collect hospital stay data regarding all aspects of the hospital stay. Application analytics analyzes the data in real time. This real time feedback drives immediate change, leading to better patient outcomes, hospital ratings, and ultimately hospital reimbursement

Respair

Each year in the United States more than 300k people are killed by ventilator-associated pneumonia (VAP). The root cause of VAP which is that current endotracheal (ET) tubes do not create a long-term and effective seal in the trachea to prevent bacteria from entering the lungs. Respair's unique design utilizes layers of baffles that passively seal the airway more consistently and for longer periods of time than inflatable cuffs without requiring constant monitoring by healthcare professionals.

Surface Design

Surface Design, Inc developed a software tool which combines many measurements of a surface to create a "digital surface twin." The digital surface twin represents a far more complete and accurate description of the surface than any individual measurement, and therefore enables far more accurate calculations of predicted performance.

