



Small Business Innovation Research (SBIR)
Small Business Technology Transfer (STTR)

National Institutes of Health
Commercialization Accelerator Program (NIH CAP)



Backyard Brains



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Company Profile

Industry Sector: STEAM-Based Solutions (Science, Technology, Engineering, Art, & Mathematics)

Company Overview: Backyard Brains' mission is to enable everyone to be a neuroscientist! The company develops and provides affordable neuroscience experiment kits for STEAM students of all ages to learn (hands-on) about electrophysiology.

Target Market(s): Schools, Universities, Discovery Channel



Key Value Drivers

Technology*: Backyard Brains provides consumer versions of graduate level research tools to explore hands-on how the brain works. Using our tools and lesson plans, one can record and stimulate living neurons of invertebrates as well as electrical signals from human brains (EEG), muscles (EMG) and hearts (EKG).



Management

Leadership:

Greg Gage, Ph.D., Co-Founder and Engineer
Tim Marzullo, Ph.D., Co-Founder and Engineer

Scientific Advisory Board: We have mentors both within the industry and academia.



Product Pipeline

- Pipeline One:** RoboRoach, insight into neurostimulation
- Pipeline Two:** Micromanipulator, electrode position aid
- Pipeline Three:** RoachScope, convert mobile phone into a microscope