

# REINVENT: Rehabilitation Environment for Post-Stroke Motor Impairment

Published date: Oct. 20, 2016

## Technology description

## Market Opportunity

Stroke remains one of the most devastating of all neurological conditions, and over 795,000 people in the United States have a stroke each year. Up to two-thirds of stroke survivors do not fully recover despite intensive rehabilitative treatment and are left with major motor impairments, requiring long-term assistance with their life. Stroke costs the United States an estimated \$34 billion each year. There are, however, few, if any, treatments for severe motor impairment after stroke.

## USC Solution

USC researchers have created a novel-closed loop neurofeedback system called REINVENT (Rehabilitation Environment using the Integration of Neuromuscular-based Virtual Enhancements for Neural Training), which provides neurofeedback when an individual's own brain and muscle signals indicate movement attempts.

## Institution

[University of Southern California](#)

## 联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com