

Product / Technology	Applications and Unique Features	Regulatory Status
CereStim - 96 channel stimulator for micro and macro electrodes	<ul style="list-style-type: none"> • Software controlled stimulation for up to 96 channels • Available for both micro and macro electrodes • Highly flexible stimulation control through Matlab/C++ API 	Not cleared for clinical use by FDA, but can be used under IRB or IDE guidance for research studies.



Auxiliary Support	Description
Engineering Expertise	<ul style="list-style-type: none"> • Product development using FDA Design Control Processes • Microfabrication of silicon- and polymer-based devices <ul style="list-style-type: none"> • Custom electrode array architectures for neural recording and stimulation • Analog and digital circuit design • Embedded systems • Custom ASIC development • Hermetic packaging • Wireless data transmission • Custom software development for experiment control, data acquisition, analysis and display • Custom neural recording headstages and adapters
Regulatory Assistance	<ul style="list-style-type: none"> • Rights of reference to leverage existing data from cleared and pre-clinical devices towards new IDE submissions • Support and expertise in IDE submissions • Support and expertise in IRB submissions
Data Repository	<ul style="list-style-type: none"> • Centralized repository for data sharing • Physiological data • Analysis code

Additional Support

Blackrock will provide technical support assistance towards the successful execution of any joint projects under the BRAIN program. Blackrock may also provide software and hardware engineering support as required for the project.