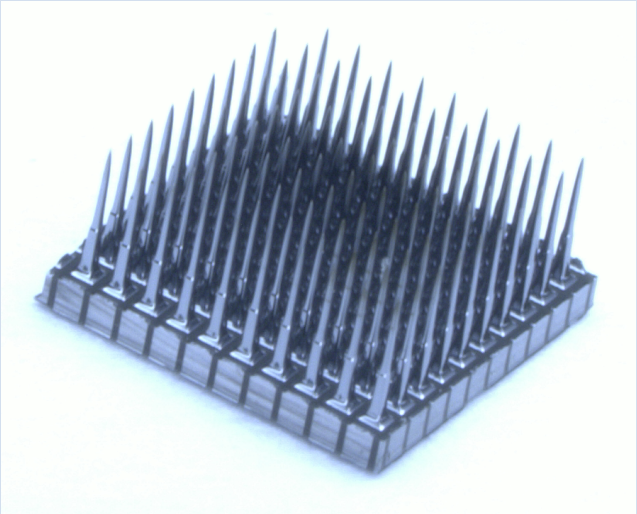
Product / Technology	Applications and Unique Features	Regulatory Status
NeuroPort™ Electrode Array - Silicon intracortical		510(k) approval for studies of less than 30 days. IDE approved clinical studies of chronic recording and stimulation for more than 30 days.

- 96-channel microelectrode array designed for spike and local-field potentials (LFP) recording from cortex
- Fixed geometry for precise location of electrode contacts.
- 400 µm electrode pitch, 4 mm x 4 mm overall size
- Customizable electrode lengths and configurations
- The Utah Electrode Array is the neural interface powering several brain-machine interface applications where human patients control external devices such as robotic arms and computers.
- Platinum and sputtered iridium oxide electrodes

Auxiliary Support	Description
Engineering Expertise	• Product development using FDA Design Control Processes • Microfabrication of silicon- and polymer-based devices • 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	• 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	• 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.