

# BIOS

## Science Exchange in Action

### Accelerating bionics from the lab to the real world

Science Exchange is enabling BIOS to rapidly advance its bionics technologies, bringing these potentially life-changing devices into the clinic where they are now being tested.

“Science Exchange allowed us to find the right niche providers who could truly meet our needs.”

– Oliver Armitage, Co-Founder and Chief Scientific Officer

### THE CUSTOMER:

#### Setting new standards for medical devices

BIOS is an innovative medical device company that is creating an open standard connection for bionic limbs which can be controlled with thought and respond to sensory inputs. Their R&D programs require integrated, cutting-edge expertise from multiple disciplines, including materials science, machine learning, and neuroscience.

### THE CHALLENGE:

#### Developing bionic devices to restore mobility is hard work

Because of the diversity and specialized nature of their research needs, the BIOS team looked to outsource some research services to complement their in-house expertise. They found it very challenging to identify specialized CROs for complex research programs in emerging scientific areas. Specifically, they sought CROs to perform preclinical, in vivo studies assessing safety and efficacy of a neurally-connected, implanted artificial intelligence device. Unfortunately, the CROs they initially discovered were simply not advanced or specialized enough to carry out these kinds of experiments.

Even if they had been able to identify potential CROs, BIOS needed to streamline the process to qualify providers, assess fair market value, obtain multiple quotes, protect intellectual property, ensure data privacy/security, and fulfill regulatory compliance. These steps in the outsourcing process are incredibly time-consuming, and BIOS did not want to spend valuable time or resources on provider qualification unnecessarily.

## THE SOLUTION:

### **Accessing innovation in a single secure online marketplace**

BIOS turned to Science Exchange to streamline provider discovery and qualification and save precious time. They gained immediate access to 2,500+ CROs, academic labs, and government facilities, all through a single marketplace contract that protects IP and confidentiality.

All providers on Science Exchange are prequalified and contracted through a rigorous, proprietary quality and risk assessment process. The in-house contracts and compliance team at Science Exchange ensure data security and regulatory compliance. In fact, Science Exchange is the only Privacy Shield, SOC 2- and ISO 9001-certified scientific outsourcing platform. As a result, BIOS was able to start their outsourced preclinical study immediately.

## THE OUTCOME:

### **A faster path to market for innovative medical devices**

BIOS estimates that working with Science Exchange saved them untold numbers of hours of searching for and negotiating new studies, and shaved more than a week off the typical four-month study.

Working with Science Exchange has sped up turnaround time on a preclinical in vivo study cycle and enhanced their ability to confidently forecast and monitor changes in the cost of a study.

In summary, Science Exchange is enabling BIOS to rapidly advance its bionics technologies, bringing these potentially life-changing devices into the clinic where they will soon be tested.