

An academic lab primarily focused on cardiovascular research contacted DSI Data Services to find a solution to their need to test a hypothesis regarding a compound's effect on sleep – a type of research typically conducted in laboratories focused on the central nervous system (CNS).

The Challenge. Although this academic research lab was on the cutting edge of cardiovascular research methods, their experience in CNS research was very limited. So when the group realized they would require a sleep study to get answers, a number of concerns were presented that made the process of gathering this essential information appear improbable:

- *How much time will it take me to understand the field of sleep research?*
- *How do I design a sleep study?*
- *Do we want to invest in CNS analysis software to test this hypothesis?*
- *What if our hypothesis is incorrect and we no longer have use for our investment?*
- *How do I use CNS software? How do I interpret the data?*

The Solution. A DSI representative recognized that the academic lab had equipment that could be used — only requiring a modest investment in implants to collect sleep data and DSI's Data Services to analyze the data. DSI Data Services proposed a very budget-friendly, yet comprehensive analysis solution. Services included:

- providing guidance on study design.
- analyzing EEG data using NeuroScore™ software.
- creating custom graphs to support the unique needs of the study.
- generating a report of analyzed data along with a study recap discussion at the study conclusion.

The Outcome. The cardiovascular lab was able to quickly, affordably and efficiently get answers to their study questions. Their study hypothesis was rejected and therefore negated the need to integrate sleep research in their near-term cardiovascular studies. Although the study was comprehensive in its design, the cost to the lab was a fraction of what would have been required if they had elected to take on the project themselves.

DSI's Data Services team was able to find the right solution for a customer who lacked funding, resources and expertise in CNS research. Without Data Services, it is unlikely that the study would have been conducted, and important scientific questions would have remained unanswered.