

PROCESSING POWER



LEVERAGING OSC IN BUSINESS, RESEARCH AND CLASSROOM

In 2001, Richard Hughes, Ph.D., a professor of physics at The Ohio State University, partnered with Stephanie Hughes, Ph.D., his sister and an expert in strategy and competitive intelligence, to found Chapel Hill North (CHN) Analytics. The firm provides clients with access to data mining and predictive analytic tools for the market.

As the business continued to grow, Hughes realized they were running low on processing power. Having used the Ohio Supercomputer Center (OSC) and its high performance computing (HPC) offerings to conduct physics research in the past, he wanted to tap into OSC to help his business but was unsure if they had an industry program.

Working with OSC's business development director, Hughes was able to leverage the Center's powerful resources through the AweSim program to handle his company's data so that

"It really is an advantage for Ohio companies to have access to this kind of computing power. It seemed too good to be true. I found out that not only is it something they encourage, they're incredibly helpful."

— Richard Hughes, Ph.D.

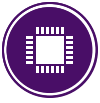
VIRTUAL DESIGNS. REAL BENEFITS.

he could focus more on the business, not the computational aspect.

Hughes also utilizes OSC OnDemand, a customized version of Open OnDemand web portal, in his Ohio State classroom to ensure all students have a consistent, simultaneously available HPC environment to work within.



**INFORMATION
TECHNOLOGY**



THE CHALLENGE

Although Hughes originally started in the realm of academic research, he quickly branched out into the business environment. He knew of OSC's capabilities for research conducted in academia and desired to incorporate the immense processing power and storage the Center offered into the industry space.

THE APPROACH

Through some investigation of his own and the help of OSC resources, Hughes' business was set up with the applicable HPC resources and programs offered by the Center to provide him with the processing power and data management he needed.

THE SOLUTION

By using OSC in his academic research, AweSim for his business and OSC OnDemand for his classroom, Hughes has been able to implement multiple facets of the Center's capabilities into all aspects of his career. This consistency gives him a familiar user experience no matter which OSC resources he is utilizing and meets his need for HPC in all his endeavors.