

# SWOSU Students Experience Computing Power

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Southwestern Oklahoma State University computer science students in Weatherford recently had the opportunity to attend a day-long workshop on High Performance Computing Application Profiling and Debugging.

Jeremy Evert, assistant professor in the Everett Dobson School of Business and Technology, accompanied the students to the workshop held in Norman.

University of Oklahoma Assistant Vice President for Information Technology and Research Strategy Advisor Henry Neeman hosted the event. Trainers demonstrated the utility of the Allinea software tools.

“From climate modeling to astrophysics and from financial modeling to engine design, the power of clusters and supercomputers advances the frontiers of knowledge and delivers results for industry,” Evert said. “Writing and deploying software that exploits that computing power is a demanding challenge—it needs to run fast and run right. That's where Allinea comes in to the picture.”

Allinea is a high end development software in use in by researchers at Argonne National Labs, Oak Ridge National Labs, the \$208 million Blue Waters Supercomputer, and the NASA Supercomputer Discover. This tool helps the students understand how to write better code that more efficiently utilizes computing resources and make a larger contribution to the bottom line of the companies they work for.

The training opportunity allowed five students to run C code on a supercomputer. SWOSU students included Dean Phares, Burns Flat; Prabhjyot Singh Saluja, India; Andrew Goad, Bridge Creek; Ingrid Law, Weatherford; and Shelby Steiner, Weatherford.

Saluja was also able to meet with Dr. Neeman and discuss the supercomputer that Saluja has recently assembled. Dr. Neeman praised Singh for his dedication, congratulated him on developing such a strong skillset and encouraged him to continue his work, according to Evert.

While in Norman, the SWOSU team also visited with Kelly Poteet, administrative coordinator for the NASA Oklahoma Space Grant Consortium/NASA EPSCoR. Poteet visited about upcoming opportunities, including the Oklahoma NASA EPSCoR workforce development trip that had SWOSU's Law as a participant.