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## **With Microway Supercomputers, UMass Dartmouth Ramps Up Research Programs**

*University scientists enjoy access to the world's most advanced computing systems.*

**Plymouth, MA** – Microway, a leading provider of computational clusters, servers, and workstations for artificial intelligence applications, announces that research activities are accelerating at the University of Massachusetts Dartmouth since the installation of a new supercomputing cluster – a group of powerful computers that work collectively.

“When you build a new machine,” says Gaurav Khanna, associate director of the university’s Center for Scientific Computing and Visualization Research, “they will come. You have a shiny new cluster that’s very powerful and modern in design. It draws interest. A faculty member who’s looking around at positions in different centers may be attracted to join us.” He adds, “People are coming in for interviews, and they’re seeing this strong group of researchers and these machines, and they’re realizing, ‘these machines are available for me to use as soon as I arrive.’”

UMass Dartmouth’s powerful new cluster affords the university five times the computing performance its researchers enjoyed previously, with over 85% more total memory and over four times the aggregate memory bandwidth. In parallel, with all its co-processors running, this new cluster is capable of a staggering 2,180 trillion operations per second. This is approximately 10,000 times as much computing power as a typical personal computer.

In the world of supercomputing, new computing power begets access to other computer systems. “There’s a broad ecosystem of different computing platforms both here at the UMass Dartmouth campus and on other national centers,” says Khanna. “Having a healthy ecosystem enables us to do computing across the entire national ecosystem. We’ll be able to run on local clusters as well as at national centers.” UMass Dartmouth, for example, has recently obtained time to use clusters at Oak Ridge National Laboratory, a facility belonging to the Department of Energy.

Microway was selected as the vendor for the new cluster through an open bidding process. “They not only competed well on the price,” says Khanna, “but they were also the only company that could deliver the kind of genius system we wanted with the right mixture of architecture.”

### **[About Microway, Inc.](#)**

Microway builds solutions for the intersection of AI and HPC. These include clusters, servers, quiet workstations designed for leading-edge computational performance—that serve demanding users in the enterprise, government, and academia.



Since 1982, customers have trusted Microway to deliver them unique and superior deployments—enabling them to remain at the forefront of supercomputing and solve the world’s toughest challenges. Microway is an NVIDIA NPN Elite Solution Provider and an IBM Business Partner. Classified as a small business, woman owned and operated, Microway’s GSA Schedule is GS-35F-0431N.

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