



Sen. Betsy Johnson, Co-Chair
Rep. Bob Jenson, Co-Chair
Joint Committee on Ways & Means
Subcommittee on Transportation & Economic Development

Co-Chairs, Subcommittee members, thank you for the opportunity to submit testimony concerning House Bill 5028.

My name is Wilfred Pinfold and I am the Director of Government Research Programs at Intel Corporation in Hillsboro. I am also Intel's Director of "Extreme Scale Programs," responsible for long-range research in areas related to high performance analytics.

In these roles, I have advised Oregon's four research universities about aligning their research and training programs with new opportunities in computing and information technology.

One of the projects that I have been involved with is the development of a new high performance computing facility for OHSU, which will help them find personalized cures for disease in huge storehouses of genetic information. I have also been advising PSU about a new collaborative Manufacturing Institute proposal that they are developing with OSU, UO, University of Washington, Washington State, Intel, and other industry partners, which promises to greatly increase the competitiveness of the manufacturers in the Northwest by making them much more efficient.

Over the past year, with other colleagues from Intel and IBM, I have advised Oregon's research universities as they have developed the Research Collaboratory program described in House Bill 5028. The investments being requested in this legislation to upgrade Oregon's computer networking will allow university researchers and their private sector partners to take advantage of new technologies in computation and analysis, which are transforming how manufacturing, science and engineering are done. From discovering new cures for disease, to understanding potential outcomes of climate change, to increasing the sustainable harvest of seafood, we are seeing remarkable new results coming from expanding how collaborative analytics works.

Other states, including Washington, Ohio, California, Arizona, and Tennessee, have already made similar investments in their networking infrastructure, allowing their universities and industrial partners to compete more effectively for government grants and contracts and for market share. For instance, Youngstown's new \$60M National Additive Manufacturing Innovation Institute beat proposals from more than a dozen other states that lacked the recently completed 100 Gigabits per second state-funded connectivity now found throughout Ohio.

Intel is exploring the opportunities provided by the next generation of computer and interconnect technology and the applications they will enable. Having nearby universities that are able to take advantage of these technologies increases the likelihood that they will be able to continue to make strong and meaningful connections with industry. It also improves the employment opportunities for their graduates in local high tech companies.

I feel confident that the investments contained in HB 5028 will be remembered as some of the best investments made by the state in 2013.

Wilfred R. Pinfold

A handwritten signature in black ink, appearing to read "Wilfred R. Pinfold", written over a horizontal line.

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