

Gene Haas Center for Integrated Machining

<http://www.ialr.org/index.php/advanced-learning/integrated-machining-technology-capstone>

The Gene Haas Center for Integrated Machining is a progressive precision machining training model that answers industry expressed needs for a highly skilled 21st century workforce.

The program is currently supported with over \$1 Million in commitments from leading global technology companies and builds on existing Commonwealth and local investments in area secondary and community college advanced machining programs aimed at increasing the number of skilled workers in the Commonwealth.

A key component of this project is a revolutionary concept that incorporates workplace experiential learning in an educational setting by enabling students to train in a full-scale manufacturing work flow cell to support a realistic, fully-integrated learning experience. This first-of-its-kind model of immersive workforce training is derived from a partnership between business, industry, and academia. The program aims to integrate a “real-world” lean flow-cell manufacturing environment with such skills as tool management, advanced testing and measurement, electrical discharge machining, computer numerically controlled grinding, computer numerically controlled milling, computer numerically controlled turning, and business processes.

Through on-going support from leading machine manufacturers, the center will provide training on cutting-edge manufacturing technology. The program has received endorsements from such industry partners as Rolls Royce, Babcock and Wilcox, North American Mold Technology, and Invista, as well as commitments from these industries in helping to develop and oversee the curriculum and training. Such commitments are a result of the vision of the Gene Haas Center for Integrated Machining’s flow cell training model going above and beyond the level of immersion that is offered at any other college in the United States.

