



Siemens' Commitment to STEM Education

As a global electronics and engineering company, education is a priority at Siemens, specifically in the fields of math, science and technology.

Siemens partnered with academic institutions and Massachusetts Manufacturing Engineering Partnership (MassMEP), Manufacturing Advancement Center Workforce Innovation Collaborative (MACWIC), and Worcester Polytechnic Institute to address workforce and education gaps by providing Product Lifecycle Management (PLM) software and support to schools to improve their ability to better develop engineers and technologists for the PLM industry. Academic partners received in-kind software grants with low program fees, upgrades, technical support, training and community collaboration resources.

Because this software can be used at any academic level, both higher education institutions and vocational schools were recipients of the PLM software. The in-kind grant had a commercial value of nearly \$700 million and the academic partners were: Worcester Polytechnic Institute, Fitchburg State University, Quinsigamond Community College, Berkshire Community College, Mount Wachusett Community College, North Essex Community College, MassBay Community College, Blackstone Valley Regional Vocational Technical High School, Assabet Valley Regional Technical High School, Tantasqua Regional High School, Greater New Bedford Regional Vocation High School, Worcester Technical High School.

This in-kind grant to the schools enabled schools to standardize curriculum and process, disseminate best practices while also establishing a network between schools. By providing the PLM software used by many companies such as BOSE, Waters Corp., Teradyne, EMC, Nypro, Textron, Reebok and Burton Snowboards this in-kind grant increases the number of the skill based locally.

By providing our partner MassWIC, with Siemens PLM software Siemens facilitated the standardization as they developed manufacturing training, specifically the Advanced Manufacturing Technology Certificate; thus employers are able to lower their cost per hire due to the supported credentialing.

Having key partners such as MassWIC and Quinsigamond Community College supporting the in kind grant lead to a successful partnership as they had close ties to the academic community. This partnership has provided positive impact to the Commonwealth because it leverages the role of education in driving the state's advanced manufacturing industry and it supports the training and expansion of skilled workers.

Currently, Siemens also has a partnership with the New Bedford Public Schools and their goal is to increase K-5 student achievement in mathematics by providing content-specific professional development to teachers. Siemens will be providing the educational consultant with background in Mathematics to assist in the development of teachers. The professional development will help teachers develop a deep understanding of mathematics and support teachers in building a math leadership within their schools. In addition, Siemens holds Siemens Science Days (SSDs) in many 5th grade class rooms around the Commonwealth; in the near future SSDs will be expanding into the New Bedford Public Schools. Siemens Science Day is a fun and engaging way to promote math and science. It consists of Siemens professionals speaking to students, first hand, about the importance of math, science and technology education, the impact of STEM careers have on society and to perform hands-on science activities. Siemens work closely with Discovery Education to ensure activities meet national science and math teaching standards as they strive to enhance students' STEM knowledge and interest. Siemens has done nearly 1,500 SSDs across the country and they hope to continue expanding their efforts in the commonwealth in order to inspire the future workforce.

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