

## Portland Community College (Portland)

### Summary of Manufacturing-Related Programs and Career Pathways

<b>Point of Contact</b>	Pamela Murray, Dean, Workforce and Econ. Dev., 503-788-6151, pmurray@pcc.edu Andrew Roessler, Career Pathways Coordinator, 503-788-6271, aroessle@pcc.edu
<b>Overview of Manufacturing Program(s)</b>	Portland Community Colleges (PCC) offers a wide range of manufacturing-related programs across a broad range of disciplines, including Electronic Engineering Technology, Drafting Technology and Design, Mechanical Engineering Technology, Aviation Maintenance Technology, Biotechnology Lab Technology, Welding Technology, Facilities Maintenance Technology, Machine Manufacturing Technology and others. Many programs are offered at both the certificate and AAS level.
<b>Approach to Pathways/Focus of Pathways Grant</b>	PCC has both a well established stand alone Career Pathways Program in manufacturing and a new initiative designed to explore integrating Career Pathways into the overall fabric of the college instructional system. The Career Pathway Programs include Machine Manufacturing and Microelectronics, both of which are two-term programs designed to prepare students for entry-level work in the respective industries. Both programs target WIA eligible populations and are “workforce” driven, preparing specially recruited cohorts of students and serving as a bridge to employment. The new initiative within the college represents an effort to link the Career Pathways effort more systemically with the college academic programs and to explore opening up opportunities to develop Career Pathway options in additional content areas. The focus of the Career Pathways grant is to modify current manufacturing-related roadmaps to include multiple entrance points (e.g., high school and ABS students) and new bridge programs. A plan will also be developed for maximizing the use, distribution and visibility of Career Pathways roadmaps, including exploration of integrating roadmaps into various college communication strategies.
<b>Challenges</b>	<ul style="list-style-type: none"> <li>▪ Addressing the needs of the diversity of manufacturing industries in the region.</li> <li>▪ Negative image of manufacturing; lack of information about career opportunities.</li> </ul>
<b>Opportunities</b>	<ul style="list-style-type: none"> <li>▪ PCC is actively engaged in the WIRED initiative to transform the regional delivery for manufacturers and align program offerings and delivery systems with employer needs.</li> </ul>
<b>Relationship with Secondary Schools re Manufacturing</b>	The PAVTEC Partnerships Coordinator serves on the PCC Career Pathways Steering Committee and works to guide high school students, parents, counselors and teachers to link efforts with Perkins Programs of Study. Students Career Days for the past two years have focused on Machine Manufacturing, general Manufacturing and Engineering. Coordinated efforts focus on strategies to enhance the connection between consortium high schools and PCC, recruit students to both, and promote counselor career development.
<b>Relationship with WIB and/or Apprenticeship</b>	PCC has a long standing relationship with the Workforce Investment Board, and funding from the WIB has shaped the current “bridge” focus for Career Pathway offerings in manufacturing. Short-term, non-credit skills training in Manufacturing Foundations, Advanced Manufacturing Skills Training in Bioscience and Solar Technology, and Entry-Level High Tech Skills training (ESL) are currently being offered. PCC also has a comprehensive industrial apprenticeship program at both the certificate and AAS levels.
<b>Relationship with Universities re Manufacturing</b>	Courses from PCC’s Machine Manufacturing Technology and Engineering programs are articulated with OIT.

#### Manufacturing-Related Pathways Focus (MP) Other Manufacturing-Related Offerings (M)

HS/Perkins Linkages	ABE/VESL Bridge	Pre-Apprentice	Pathways (12-44 hours)	Certificates (45 hours)	Two-Year Degrees	Apprenticeship
MP	MP		MP	M	M	M