

Betsy Johnson

From: Carter, Matthew D <matthew.d.carter@boeing.com>
Sent: Friday, April 21, 2017 7:26 AM
To: betsy@betsyjohnson.com
Cc: Gerry, William M; Adrian Allen; White, Richard A
Subject: SPEEA supports OMIC

On April 20, 2017 the governing body of Society of Professional Engineering Employees in Aerospace, SPEEA, (IFTPE local 2001), passed a motion in support Oregon Manufacturing Innovation Center. (SPEEA is the Engineering and Technical employees union at Boeing.) speea.org

MOTION

It is moved that: The SPEEA NW Council supports efforts in the Oregon State Legislature to ensure needed funding for the Oregon Manufacturing Innovation Center, (OMIC). Further, the NORTHWEST COUNCIL supports use of SPEEA website, publications, and other communication resources to educate and encourage individual SPEEA members and retirees to support OMIC and supports engagement and cooperation with other organizations supporting OMIC.

The SPEEA NW L&PA committee recommends approval of this action.

Motion passed 63-2. SPEEA Council is made up of Engineers and Technicians, is known for being very independent. It is doubtful "motherhood" would have received a 63-2 approval.

The phrase, "and supports engagement and cooperation with other organizations supporting OMIC" allows SPEEA lobbyist, staff, and other resources engage and collaborate with others supporting this effort.

Matt

Letter of Commitment to the Oregon Manufacturing Innovation Center (OMIC)

This non-binding letter of commitment, is effective as of 29 August 2016 provided by and on behalf of The Boeing Company, acting through Boeing Research and Technology, located in Seattle, Washington, USA, (hereinafter referred to as "BOEING") and is intended to set forth the basic understanding of interest in collaborating in establishing the Oregon Manufacturing Innovation Center ("OMIC") as a Launch Partner. Accordingly, BOEING hereto intends as follows:

- 1) Participation in the OMIC as a Tier I member.
- 2) Additionally, BOEING, in support of OMIC, will;
 - a) Provide one FTE staff member for one year to support the project
 - b) Allocation of funding (at least \$300,000) to secure support of key Advanced Manufacturing Research Center staff in consultation, this allocation will be credited as BOEING's first year membership.
 - c) Other staff and resources as needed for successful execution of the OMIC.
- 3) BOEING intends to commence good faith negotiations of a Master Membership Agreement to establish the OMIC which will provide a framework for cooperation between other potential launch partners and other industry partners who may join said Agreement.
- 4) This Agreement is contemplated as the first step in establishing the OMIC and shall serve as the general framework of cooperation between the Parties until the final agreement is negotiated and executed.
- 5) BOEING agrees to use its best effort to complete the negotiations and execute the final Master Membership Agreement within 3 months from the date of this Letter. The time necessary to complete the final agreement may be extended by mutual, written agreement.
- 6) This Letter of Commitment shall terminate at the earliest of:
 1. One (1) year from the effective date; or
 2. Execution of the Master Membership Agreement; or
 3. A written agreement by the Parties to terminate this letter.
- 6.) No public release or statement as to the existence or nature of this Letter, nor the activities carried out hereunder, shall be made without the written consent of BOEING.
- 7.) This Letter constitutes only an expression of intent and commitment of BOEING as outlined above and does not constitute a binding agreement by BOEING to consummate the transactions outlined in the Letter. No offer, commitment, estoppel, undertaking or obligation of any nature whatsoever shall be implied in fact, law or equity unless expressly made part of this Letter.

AS WITNESS HERETO

THE BOEING COMPANY



Caitlin J Gerstenschlager,
1704315

Digitally signed by Caitlin J Gerstenschlager,
1704315
DN: o=Boeing, ou=Secure Messaging, cn=Caitlin J
Gerstenschlager, email=caitlin.j.gerstenschlager@boeing.com
Date: 2016.08.29 14:39:20 -0700

By: Caitlin Gerstenschlager
Title: University Strategy & Collaboration
Procurement Agent
Date: 29 August 2016

(DRAFT) MEMORANDUM OF UNDERSTANDING

**Between
Scappoose School District
and
Portland Community College**

May 3, 2017

This Memorandum of Understanding ("MOU") is made and entered into by and between Portland Community College ("PCC") and Scappoose School District ("SSD") for the purpose of exploring, developing and operating Oregon Manufacturing and Innovation Center ("OMIC")-related training in Scappoose High School's CTE Center for high school students and the general population for the two-year time period beginning July 1st 2017 and terminating June 30th 2019 or on the date that PCC relocates to a completed OMIC facility, whichever occurs first.

This MOU is designed to begin the process of structuring and shaping a formal agreement that outlines the goals of the partnership between PCC and SSD, designate certain roles and responsibilities to each party, designate joint roles and responsibilities to the parties. The use and ownership of equipment, facilities, programming and operations, staffing, financial obligations and the necessary recitations for amendments will be determined in a separate agreement.

NOW THEREFORE, in consideration of the mutual promises by the PARTIES, it is agreed as follows:

A. SSD SHALL:

Facilities

1. Provide the facility in S hall for the PCC CTE Center.
2. Allow for PCC branding on S Hall CTE Center, in cooperation with and approval of PCC Marketing department.
3. Provide the space for the computer lab in S hall.
4. Pay the utilities such as electricity, sewer, and water for the facility.
5. Pay for custodial costs and the maintenance of the S hall facility.
6. Pay for the infrastructure of S hall areas such as wireless and data connections, office for PCC personnel, and clearing and painting of CTE Center.
7. Provide access to SD buildings for future summer programming.
8. Provide standard facility use protocol per Scappoose School Board policy.

Equipment

9. Leverage existing SSD equipment from Metals Lab to support new PCC OMIC Training and align curriculum.
10. Meet periodically with PCC counterparts to explore additional equipment purchasing opportunities that align with advanced manufacturing training.

Staffing

11. Hire one additional full-time qualified CTE instructor to teach high school coursework aligned with OMIC curriculum and training pathways.
12. Collaborate with PCC CTE faculty to achieve dual credit certification in courses that align with OMIC skills development.

Students

13. Ensure high school students enrolled in PCC classes observe college rules and regulations.
14. Promote cross-district training opportunities for students to access OMIC pathways.

B. PCC SHALL:**Equipment**

1. Purchase and install equipment up to \$500,000 for pre-OMIC/OMIC advanced manufacturing training programs. PCC maintains ownership of equipment and will move it to PCC's OMIC facility. (A separate intergovernmental agreement relative to equipment will be created.)
2. Allow Scappoose SD staff to use equipment for purposes of high school coursework, including dual credit opportunities, curriculum development and other Scappoose School District related training and practices.
3. Ensure equipment is accessible to high school and postsecondary PCC students under direct supervision of PCC faculty and staff or certified high school instructor.

Staffing

4. Provide faculty to deliver PCC courses as mutually agreed upon.
5. Require PCC instructors and staff who use the facilities during normal school hours to follow Scappoose SD employment policies.
6. Provide technical staff as necessary to maintain and repair equipment.
7. Provide support to explore the development and promotion of dual credit opportunities for Scappoose School District faculty.

Programming

8. Explore the development of programming in any of the following categories:
 - a. Dual credit
 - b. PCC courses reserved for Columbia County high school students.
 - c. PCC courses open to the general community during non-school hours.
9. Explore the development of and provide programming in any of the following disciplines:
 - a. Mechatronics and Factory Automation
 - b. Digital Fabrication
 - c. CNC Milling and Turning

- d. CAD/CAM Computer Lab
- 10. Provide academic and trades educational pathways leading to college credentials and employment opportunities.
- 11. Manage the enrollment process similar to all other PCC course offerings at different locations.

C. PROPOSED TIMELINE

Est. Time Frame	Activity	Responsible Party
Spring 2017	S Hall building preparation	Scappoose SD
Spring 2017	Equipment ordering	PCC
Summer 2017	Student recruitment and messaging	Scappoose SD and PCC
Summer 2017	Building infrastructure	Scappoose SD
Summer 2017	Curriculum development	PCC and Scappoose SD
Summer 2017-Fall 2017	Equipment training	PCC and NWRESD
Fall 2017	PCC OMIC courses launched	PCC
Spring 2018	HS courses launched	Scappoose SD and PCC
Fall 2018	Agreement extension discussion	Scappoose SD and PCC
June 30, 2019	Termination of contract terms	Scappoose SD and PCC

IT IS MUTUALLY AGREED AND UNDERSTOOD BY AND BETWEEN THE PARTIES THAT:

- 1) Amendment. This MOU may only be amended in writing and agreed to by both Parties.
- 2) Notice of Termination. PCC will provide SSD with 60 days notice prior to its relocation to the OMIC facility, if relocation occurs prior to termination of this MOU.
- 3) Extension. Both parties must agree to extension past June 30th, 2019 on a year-to-year basis.
- 4) Facilities. The operation of this project will provide no harm to existing facilities, personnel, or local community and that all facility activities are in

compliance with federal, state, and local regulations.

- 5) Training. Both parties are responsible for exploring cross-training opportunities, curriculum, and professional development.
- 6) Safety. Use of equipment shall be restricted to trained personnel. Students can use the equipment under the supervision of SSD staff. All staff and students will adhere to established SSD emergency policies.
- 7) Liability. Subject to the limitations of the Oregon Constitution and Oregon Tort Claims Act, PCC shall defend, indemnify and hold SSD harmless from and against any and all claims, actions, damages, expenses, losses or liabilities incurred by or asserted against SSD to the extent caused by PCC's negligence or breach of this MOU. Subject to the limitations of the Oregon Constitution and Oregon Tort Claims Act, SSD shall defend, indemnify and hold PCC harmless from and against any and all claims, actions, damages, expenses, losses or liabilities incurred or asserted against PCC to the extent caused by negligence from SSD or breach of this MOU.
- 8) Equity. Both parties agree to promote inclusive programming opportunities to underserved and underrepresented populations.
- 9) Sales and Marketing. This MOU grants SSD the exclusive rights to sell and market new manufactured goods produced in high school classes to all existing markets presently serviced by SSD or future markets, or those mutually agreed to by both parties.
- 10) Expenses. Each PARTY to this MOU is responsible for its own expenses relating to this project and any travel, testing or materials. There will not be an exchange of funds between SSD and PCC, or any joint purchases, unless specifically agreed to in writing by both parties.
- 11) Partial Invalidity. If any provision of this MOU, or the application of this MOU, or the application of this MOU to any person or circumstance is found to be invalid, the remainder of the provisions of this MOU, and the application of such provisions to persons or circumstances other than those to which it is found to be invalid, shall not be affected thereby.
- 12) IGA. Both parties agree to negotiate in good faith an intergovernmental agreement that is consistent with and would implement the MOU.
- 13) Confidentiality. Each PARTY (a "Disclosing Party") may disclose or grant to the other party ("Receiving Party") access to information that the Disclosing Party considers confidential or proprietary ("Confidential Information"). Confidential Information, as used in this Agreement, shall mean any information or data which (a) if in tangible form or other media that can be converted to

readable form, is clearly marked as proprietary, confidential or private when disclosed, (b) if oral or visual, is identified as proprietary, confidential, or private at the time of disclosure, or (c) is of a nature or is disclosed under circumstances such that a reasonable person would consider it confidential. The PARTIES agree to not disclose any of the other PARTY's proprietary or confidential information to any third party. This obligation shall survive this Agreement for a period twelve (12) months. The obligations of this provision shall not apply to any information that the PARTIES can show it possessed prior to its disclosure by the other PARTY, was or has become available to the public, is subsequently provided to it by another party having the right to possess and disclose the information or is developed by employees of the other PARTY independent of the information. Both PARTIES acknowledge that they are public bodies subject to the Oregon Public Records Law (ORS 192.410 to ORS 192.505). Disclosure of Confidential Information when required to comply with the Public Records Law will not be deemed a breach of this section.

14) Notice. In the event notice is sent to either PARTY under this MOU, the principal contacts are:

Stephen Jupe – Superintendent Scappoose School District 1J
Scappoose School District 1J
33589 SE High School Way
Scappoose, OR 97056

Sylvia Kelley, Executive Vice President or
Marc Goldberg, Associate Vice President
Portland Community College
P.O. Box 19000
Portland, OR 97280

IN WITNESS WHEREOF, the PARTIES hereto have executed this MOU as of the last date written below.

BY: _____ DATE: _____
Stephen Jupe-Superintendent Scappoose School District 1J

BY: _____ DATE: _____
Sylvia Kelley, Executive Vice President PCC



OREGON MANUFACTURING INNOVATION CENTER

General Fund Request

OMIC R&D Operational

R&D Projects for Float, Freight or Fly - \$2M

Transport, Installation, Training for Donated Equipment (Valued at \$5M) - \$750K

- DMG Mori Duo-Blok
- WFL M-80 Mill-turn
- Mitsui Sieki HU 100

Personnel - \$600K

- Commercial Director
- Technical Director

Basic Operations (includes building modifications) - \$1.5M

Total Need - \$6,450,000

Continued appropriation from OBDD to OMIC R&D for administrative/operations costs - \$1.6M

OMIC R&D General Fund Detail**OMIC R&D Capital Set Up Cost Summary**

R&D Projects for Float, Freight or Fly	\$	2,000,000
Transport, Installation, Training for Equipment	\$	750,000
Personnel	\$	600,000
Basic Operations	\$	1,500,000
Continued appropriation from OBDD to OMIC R&D for administrative/operations costs	\$	1,600,000
Total	\$	6,450,000

R&D Projects for Float, Freight or Fly	\$	2,000,000
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Transport, Installation, Training for Equipment	\$	750,000
Mitsui Sieki HU 100	\$	200,000
WFL M-80 Mill-turn	\$	100,000
DMG Mori Duo-Blok	\$	200,000
Delivery	\$	45,000
Installation	\$	75,000
Training	\$	130,000

Personnel (inclusive of benefits and payroll taxes through 2018)	\$	600,000
Commercial Director	\$	300,000
Technical Director	\$	300,000

Basic Operations (includes building modifications)	\$	1,500,000
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Continued appropriation from OBDD to OMIC R&D for administrative/operations costs	\$	1,600,000
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OREGON MANUFACTURING INNOVATION CENTER

XI-Q Bond Request

OMIC R&D

Road Access - ***-\$2,390,000***

ADA Compliance - ***-\$250K***

Industrial Electrical Infrastructure - ***-\$700K***

Electrical

- Additional power to building for donated equipment
- Buildout from power drop to floor

OSHA-Compliant Environmental Systems - ***-\$750K***

- HVAC
- Air filtration & fume extraction
- Industrial waste management

Chemical, Coolant and Lubricant Storage and Management System - ***-\$350K***

- Specialty gas

Installation of Manufacturing Support Equipment - ***-\$800K***

- Bridge Cranes
- Compressor and surge tanks
- Industrial grade waterjet system

Structural Modification to Support Donated R&D Equipment - ***-\$375K***

- Concrete slab reinforcement
- Overhead door modification
- Shop floor buildout

Testing and Evaluation Laboratory Capital Equipment - ***-\$650K***

- Coordinate Measuring Machine
- Mobile Microscopy Station
- Laboratory machine shop

Total Need - *-\$6,270,000*

OMIC Training Center

Classroom Industrial Machinery & Tooling - ***-\$800K***

Digital Fabrication / Computer Controlled Machines & Tooling - ***-\$1,500,000***

Road Access - ***-\$1,000,000***

Total Need - *-\$3,300,000*

OMIC R&D XI Q Bonding Detail

OMIC R&D Capital Set Up Cost Summary

Road Access	\$	2,395,000
ADA Compliance	\$	250,000
Industrial Electrical Intrastructure	\$	700,000
OSHA-Compliant Environmental Systems	\$	750,000
Chemical, Coolant and Lubricant Storage and Management System	\$	350,000
Installation of Manufacturing Support Equipment	\$	800,000
Structural Modification to Support Donated R&D Equipment	\$	375,000
Testing and Evaluation Laboratory Capital Equipment	\$	650,000
Total	\$	6,270,000

ADA Compliance	\$	250,000
Elevator		

Industrial Electrical Intrastructure	\$	700,000
Intrastructure	\$	250,000
Buildout from power drop to shop floor	\$	150,000
Additional power to the building	\$	300,000

OSHA-Compliant Environmental Systems	\$	750,000
HVAC		
Air filtration & fume extraction		
Industrial waste management		

Chemical, Coolant and Lubricant Storage and Management System	\$	350,000
Specialty gas		

Installation of Manufacturing Support Equipment	\$	800,000
Bridge Cranes	\$	500,000
Compressor and surge tanks	\$	125,000
Industrial grade waterjet system	\$	175,000

Structural Modification to Support Donated R&D Equipment	\$	375,000
Concrete slab reinforcement	\$	100,000
Overhead door modification	\$	200,000
Shop floor build out	\$	75,000

Testing and Evaluation Laboratory Capital Equipment	\$	650,000
Coordinate Measuring Machine	\$	150,000
Mobile Microscopy Station (2)	\$	100,000
Laboratory machine shop	\$	400,000



OREGON MANUFACTURING INNOVATION CENTER

Shaping the Future of Manufacturing in Oregon

What is the Oregon Manufacturing Innovation Center (OMIC)?

OMIC is a world-class collaborative environment bringing together industry, higher education and government in partnership to develop new tools, techniques and technologies to address near-term manufacturing challenges through applied research and advanced technical training. OMIC is modeled after The University of Sheffield Advanced Manufacturing Research Centre (AMRC) with Boeing in Sheffield, England.

What is the value proposition?

OMIC is the catalyst to enhance the competitiveness of the metals manufacturing industry, serving companies of all sizes through an industry-driven collaborative. The result provides a critical mass of workforce and innovation assets in the region, creating an innovation district for advanced manufacturing in Oregon.

OMIC R&D

OMIC R&D will deliver advanced manufacturing tools, techniques and technologies to industry partners and the supply chain; a world-class learning/research and development environment to academic partners; and a pathway to economic prosperity and job growth. OMIC R&D is located in Columbia County, Oregon. The applied research and development facility will launch initial projects in 2017.

OMIC Training Center

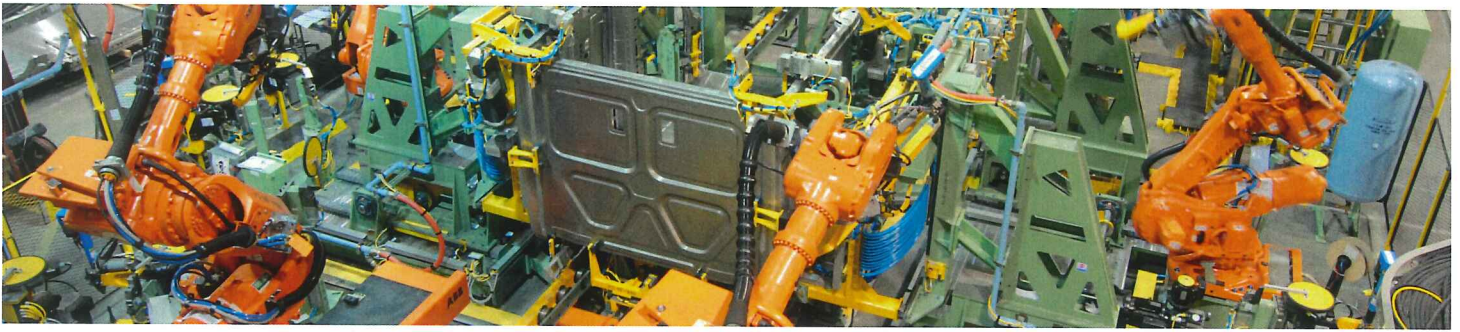
Portland Community College is building the OMIC Training Center. The Center will bring unprecedented workforce development opportunities to Oregonians with hands-on, earn-as-you-learn training programs. The OMIC Training Center emphasizes craftsmanship, professionalism, and placing graduates into high-wage, high-demand jobs. PCC's training programs will create pathways to high-demand degree programs at the partner universities. The 25,000 square foot Training Center is slated to open Fall-term of 2018.

OMIC Innovation District

Under the auspices of the OMIC Enterprise, inclusive of the partners listed to the right, the OMIC Innovation District will plan for expansion of future R&D facilities and new business operations that support the growth of advanced manufacturing in Oregon. With the current momentum of OMIC, two major companies are already looking to relocate within the district.

The collaborative partnership includes:

- City of Scappoose
- Columbia County
- Columbia County Economic Team
- Greater Portland, Inc.
- Portland State University (PSU)
- Oregon State University (OSU)
- Oregon Tech (OIT)
- Business Oregon
- Portland Community College (PCC)
- Oregon Employment Department
- ATI Specialty Alloys and Components
- Blount International
- The Boeing Company
- Daimler Trucks North America
- Hangsterfer's Laboratories, Inc.
- Silver Eagle Manufacturing
- Vigor



Initial Investment

During the 2016 session, the Legislature appropriated \$7.5M to OMIC. \$5M XI-G bond proceeds were provided to the Higher Education Coordinating Commission for distribution to Portland Community College to finance the acquisition of and improvements to land and the acquisition, construction for a Training Center Building, including furnishing and equipping of the building. Lottery revenue bonds were approved to provide \$2.5 million of proceeds to the Oregon Business Development Department for support of OMIC R&D investment in manufacturing infrastructure to promote advanced manufacturing.

OMIC Progress to Date

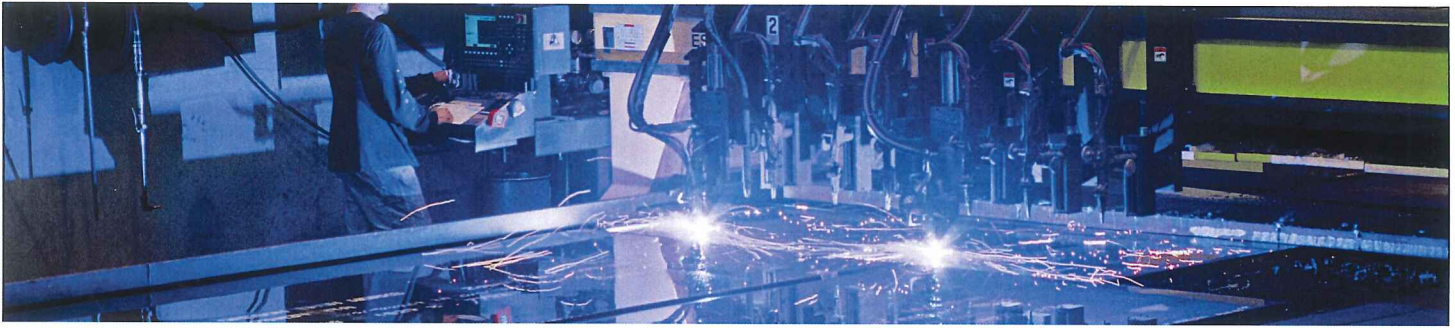
OMIC has seen tremendous momentum since January 2016. The progress to date is as follows:

- OMIC R&D Facility building and land purchased in 2016 by Oregon Tech with State funding support
- Portland Community College is acquiring 20 acres of land and an option for 20 additional acres in Columbia County and plans to build a 25,000 square foot Training Center pending Federal Grant
- OMIC R&D entity was legally established in September 2016 as a 501(c)6 entity with a Board of Directors, comprised of industry, higher education and government stakeholders
- OMIC R&D Master Member Agreement is in final negotiations
- OMIC R&D Technical Council formed to guide the technical portfolio for research and development
- OMIC R&D and OIT Business Plans completed
- Active leads from national and international tool companies looking at land and talking to developers; seeking to build facilities near OMIC
- City and County land use approvals nearly complete; 200 acres brought into the UGB
- Significant public and private investment (see detail below)
- PCC and their OMIC Training Center leaders have begun work in forming a Joint Apprenticeship & Training Committee and is now in the process of onboarding selected OMIC R&D industry partners
- OMIC Training Center leaders, working with industry leaders and regional economic development teams have identified the first two Registered Apprenticeship Standards as "Machinist" and "Mechatronics Technician"
- PCC has vetted the needed equipment list for the apprenticeship training programs with industry leaders

Public Sector Contributions

University research partners have committed funding for this initiative and may conduct federally and/or industry sponsored research and assign faculty/students to use the R&D facilities.

- Oregon State University and Portland State University: \$100,000 yearly commitment
- Oregon Tech: \$1.7M for building purchase (in conjunction with \$2.5M from OBDD)
- \$100,000 in-kind and cash from Greater Portland Inc., Columbia County, Columbia County Economic Team and OBDD
- \$174,000 re-allocated from Northwest Collaboratory for Sustainable Manufacturing (NWCSM) to OMIC R&D for operations costs through June 2017
- ODOT Immediate Opportunity Funds for West End Lane road access (\$843,000)
- PCC has allocated \$9.4M through public bonds for the OMIC Training Center, to help purchase land, construct a building, and acquire capital equipment
- PCC was awarded a \$577,500 Oregon Talent Council grant of which \$234,142 will be spent on equipment, supplies and software to be used for the OMIC Mechatronics Registered Apprenticeship targeting an early-launch in fall 2017 at PCC's Willow Creek Center
- The US Department of Labor Employment and Training Administration has awarded the Oregon Employment Department a \$3M grant to be used for creating and expanding registered apprenticeships in advanced manufacturing



Private Sector Contributions

- \$780,000 cash investment for 2017-2018 from Industry Charter member (not including new members)
- \$2M in-kind contributions from Industry Charter Members
- Donated land: 2.3 acres valued at \$400,000 (road access to OMIC R&D Facility)
- Equipment pledges valued at \$11.4M from global manufacturing supplier base
- \$2.7M state of the art CNC Turning/Boring/Milling Center
- OMIC Training Center team is working with OMIC R&D industry members and other regional manufacturers to identify opportunities for equipment and supplies donations

Looking to the Future

Below are milestones and deliverables for OMIC in the next Biennium.

Future investment

- Grant application to Economic Development Administration (2 concurrent in the amounts of \$3M each) for infrastructure development for OMIC Training Center and OMIC R&D
- PCC is in partnership with The Boeing Company and Oregon Tradeswomen Inc. to apply for a pre-apprenticeship grant
- The PCC Foundation is submitting a grant proposal to the Ford Family Foundation to help fund Future Connect's wrap-around services for Columbia County-based apprentices

OMIC R&D

- Q2 2017:
 - OMIC R&D Facility opens
 - Applied research executed by Charter Research Members (OSU, OIT and PSU)
 - RFPs for Research Projects completed and research and development launched
- 2017-2018: OMIC R&D Member Recruitment forecast \$570,000 in new members

OMIC Training Center

- Q3-Q4 2017: Registered Apprenticeships -- Machining and Machine Repair Mechanics to be presented to Oregon State Apprenticeship and Training Council
- PCC has submitted a grant proposal to GE Additive to obtain a metal-printing additive manufacturing machine
- PCC's OMIC Training Center will participate in this year's NW Machine Tool Expo April 12-13 at the Portland Convention Center, to promote OMIC Training and R&D, develop new industry partners, and recruit registered apprenticeship sponsors

OMIC Innovation District

- 2017: Creation of Innovation District with special incentives to attract international investment in Oregon

Requested 2017 Legislative Support

- \$6.0M for operations, equipment installation & training, applied research projects (**General Fund or Lottery Bonds**)
 - Includes continued \$1.6M appropriation to OMIC R&D for operations costs in OBDD budget
 - \$4.4M to augment equipment purchases (delivery, installation, training) and applied research projects (with industry match)
- \$6.0M bonding for infrastructure costs related to building and site development campus-wide (**XI-Q Bonds**)

Oregon's seven public universities are seeking an increase of at least \$100M in state funding to maintain current operating service levels and keep college affordable. Additionally, the 17 community colleges are requesting an increase of at least \$80M in state funding for the same purpose. OMIC strongly supports both requests.

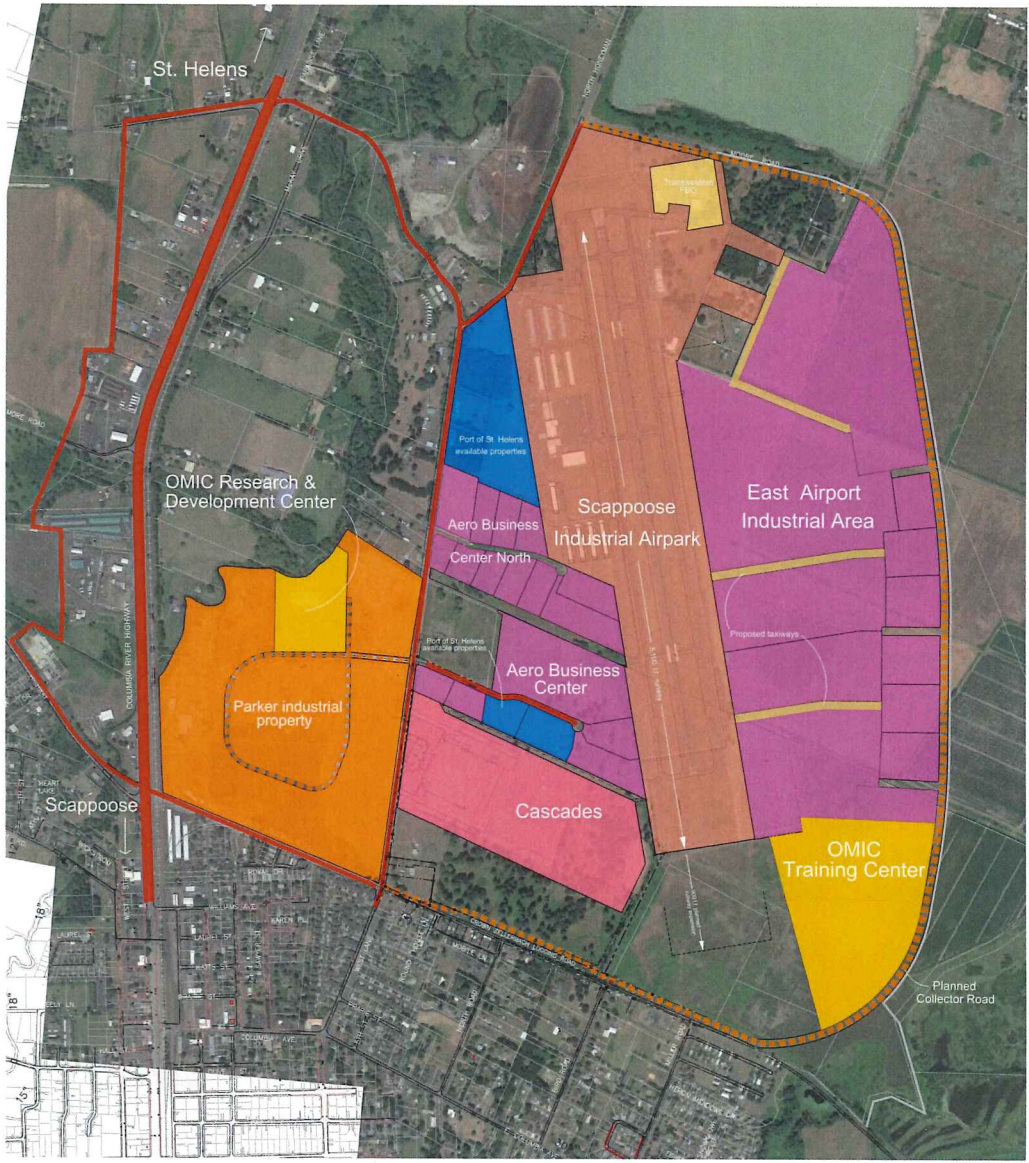


Figure A: Oregon Manufacturing Innovation District



Figure B: OMIC R&D Facility in Scappoose, OR. Representative signage added.

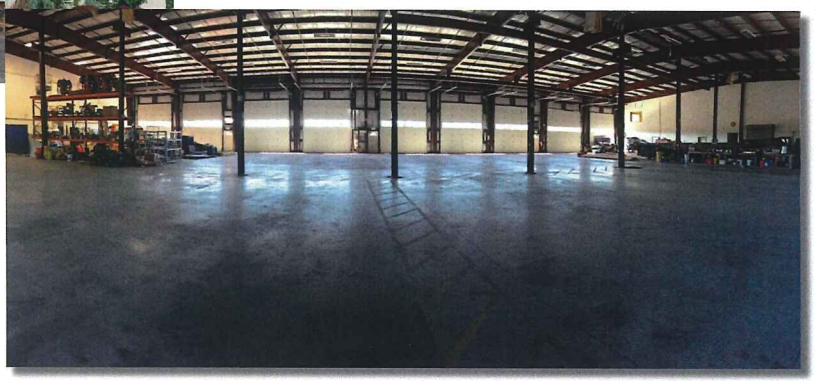
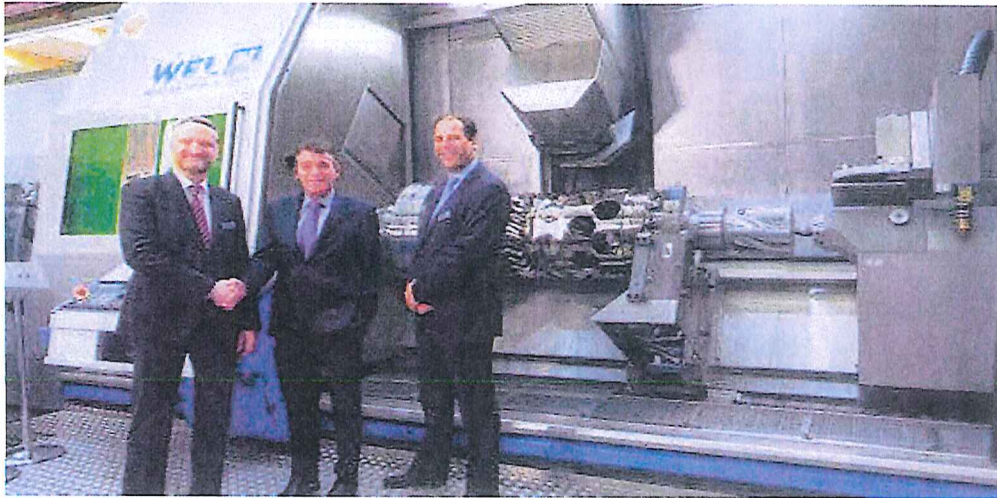


Figure C: OMIC R&D High Bay Interior View

Boeing-Airplanes – in the future equipped with Know-How from Linz

LINZ/PORTLAND. WFL Millturn Technologies, manufacturer of multitasking machines from Linz/Austria, has set foot on the shop floor of US aerospace producer BOEING and hopes to generate more orders.



WFL CEO Norbert Jungreithmayr (left.), Expert for the Aerospace Industry Adrian Allen (centre) and WFL Head of Sales Martin Kaukal (right) in front of a M80 MILLTURN multitasking machine, which will be working for Boeing in future. Picture: rubasch (APA/AFP/ROBYN BECK)

Passengers in Boeing aircrafts can take off in the future with Know-How from Linz. WFL Millturn Technologies has entered a cooperation for research and development with the University of Sheffield (UK) and The Oregon Manufacturing Innovation Center (OMIC), and will supply one of their MILLTURN multitasking machines for R&D-work to be placed in the new OMIC Research and Development facility near the Boeing Commercial Airplanes fabrication facility in Portland, Oregon. .

OMIC will be modelled after the Advanced Manufacturing Research Center at University of Sheffield with Boeing (AMRC) representing a collaboration between Industry, Academia and Government and focused on developing new tools, techniques and technologies supporting advanced manufacturing processes. OMIC, currently in launch phase, has three Academic and six Industrial partners as Launch Charter Members. Boeing Portland plans to get R&D-work for its growing work statement in aircraft actuation systems done in the new OMIC facility. "As a partner for development at Boeing we are building a basis for being a prospective supplier for the production", CEO Norbert Jungreithmayr is stating.

Expert for the Aerospace Industry, Adrian Allen, AMRC Commercial Director, is seeing good chances for the cooperation to generate follow-up orders as the WFL equipment has the potential to drastically reduce machining times of critical actuation components.

It's a real pleasure that WFL is becoming a development partner of a giant like The Boeing Company, Martin Kaukal, Head of Sales is concluding.

WFL has 400 employees at the headquarters and centre of research and development in Linz. WFL origins from VOEST ALPINE Linz and was taken over by Autania Group in 1993.