OMIC R&D
World-Class Facilities

Sited near the scenic Columbia River, in Scappoose, Oregon — a rural community with room for growth and its own airport — OMIC R&D is 30 minutes from downtown Portland, the state’s largest metropolitan area. The 30,000 sq.ft. facility features lab, production and machine shop capabilities with the latest equipment and in an environmentally controlled, ecologically safe facility.

Contact

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Heart of the OMIC Enterprise Innovation District

OMIC R&D serves as the anchor for a new regional economic engine. As its renown grows, the Center will attract more manufacturers, supply chain companies and service providers to Scappoose, Columbia County and the greater Portland metropolitan region. The “OMIC Effect” is already being realized. The first arrival is OSG USA Inc., which is building a new facility adjacent to OMIC R&D. Next up is Portland Community College, which will open its new 25,000 sq. ft. PCC/OMIC Training Center in 2020. PCC currently provides hands-on training classes at Scappoose High School until its facility is completed.

Innovation Attracting Local, State, Federal and Private Support

The State of Oregon has been a strong partner and supporter of OMIC R&D, providing both operational and capital resources in order to ensure a successful enterprise able to meet its goals. Columbia County, the City of Scappoose and local businesses and property owners have also provided support with everything from accelerated permits and contracts to donated land. Philanthropic support has provided scholarships for college students to earn degrees in Mechanical/Manufacturing engineering and to intern at OMIC R&D throughout their college careers. OMIC R&D is also working with the Economic Development Authority of the U.S. Department of Commerce on a major multi-year grant to further develop infrastructure and support innovation. Oregon Institute of Technology (Oregon Tech) is the landlord and operations host of OMIC R&D.
Forging the Future of Manufacturing

Oregon’s dynamic metals manufacturing industry has grown over the years from riveted iron steam engines to titanium alloy aerospace components. More than thirty percent of the state’s gross state product (GSP) comes from durable goods manufacturing for industries such as marine, air and ground transportation. More than 600 small, medium and global companies, from machine shops to multi-billion-dollar original equipment manufacturers, are part of Oregon’s advanced metals manufacturing ecosystem.

Now in an era of global competition, companies must develop innovative and proprietary technologies that strengthen their high-value manufacturing capabilities. Parallel with this, states like Oregon are investing in the training and education of their manufacturing workforce to retain competitive. While advanced manufacturing is strengthening in the U.S., only 8% of the labor force works in manufacturing in 2018, down from 24% in 1960.¹

Redefining Manufacturing Regionally and Globally

Not just a state with a breathtaking coastline, majestic mountain peaks, world-class breweries and forward looking culture, Oregon also has a high value and innovative manufacturing base. Vibrant, diverse, and adaptive, Oregon’s durable goods manufacturing is many times the national average and places Oregon in the top tier of U.S. states.

OMIC R&D Partners in Research & Education

To achieve its innovation goals, Oregon-based, national and global partners in industry have joined forces with Oregon public universities to develop tools, techniques and processes that advance metals manufacturing. The Oregon Manufacturing Innovation Center Research and Development – or OMIC R&D – is using an “outside-in” applied research approach to improve the quality, productivity and efficiency of metals and other manufacturing, while reducing costs and time-to-market.

To respond to industry needs OMIC R&D provides advanced manufacturing training and internships, engaging faculty and undergraduate and graduate students from partner universities to develop new engineering curricula, graduate research programs, and provide professional experiences. At the apprenticeship level, Portland Community College’s OMIC Training Center has affiliated with OMIC R&D to create curricula and hands-on “learn and earn” programs that are responsive to industry needs.

Boeing’s Leadership in Advanced Manufacturing

In support of both the industry and its workforce, Boeing is the founding partner of OMIC R&D. Based on the success of its Advanced Manufacturing Research Centers in fourteen other countries, Boeing and its industry and academic partners initiated OMIC R&D to fill the gap between private and federally funded basic research and applied research for commercialization.

OMIC R&D Advanced Metals Manufacturing Services

While OMIC R&D serves its members’ general and specific research needs, it also provides fee-for-service offerings for non-members such as:

- Custom research projects
- Machine-time usage
- Inspection and testing services
- Consultative problem-solution development
- Incumbent worker training

OMIC R&D’S State-of-the-Art Machinery

Some of OMIC R&D’s industry and university members provide permanent or temporary machinery to advance the speed and quality of applied research in the facility. Pride-of-place on OMIC R&D’s factory floor belongs to the M80 Millturn (shown below and on the cover) provided by member company WFL Millturn Technologies GmbH & Co. KG.

OMIC R&D members include National & Global Partners (May 2019)

- ATI Specialty Alloys & Components
- Blount International
- Boeing
- Caron Engineering
- CG Tech
- Daimler Trucks North America
- Hauser USA
- Hangsterebrüder’s Laboratories, Inc.
- IMS Software
- Kennametal Inc.
- Mitsubishi Materials Corporation
- Oregon Institute of Technology
- Oregon Manufacturing Extension Partnership
- Oregon State University
- OSG USA, Inc.
- Portland General Electric
- Portland State University
- Sandvik Coromant
- Schaeffler Oil
- Secco Tools
- Silver Eagle Manufacturing Company
- Sugino Machine Limited
- Vigor
- Walter USA
- WFL Millturn Technologies
- ZOLLER Inc.

Priority areas for applied research efforts include:

- Rapid Tooling & Additive Manufacturing
- Subtractive Process Optimization
- Gear Making
- Metrology & Inspection
- Automation & Robotics
- Industry 4.0

¹ www.nam.org/Data-and-Reports/State-Manufacturing-Data