



WHO WE ARE

OUR PARTNERS



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RESEARCH PARTNERS

Jun Jiao
Professor, Director of CEMN Materials Science Group, PSU

Graham Tewksbury, PhD
Research Associate Professor, Oregon State University

Dave Garner
Assistant Professor of Mechanical Engineering at George Fox University

RESEARCH UNIVERSITIES



Oregon State University



Portland State University



GEORGE FOX UNIVERSITY

Oregon TECH

PROJECTS SINCE 2021

Since 2021 alone, OMI has supported 27 Oregon companies with nearly \$4 million in matching funds across 70 distinct R&D projects, leveraging the best of our research university faculty, students and facilities on innovative R&D projects to grow Oregon companies and university research capabilities. An example of recent projects includes:

- **Oregon Tool** - Evaluation of Sawchain Lubricants & Guide-bar Prototypes
- **ATI** - High Temperature Investigation of the Nb₂O₅-HfO₂ System
- **Oregon Tool** - Spindle Assembly Test Machine
- **Daimler** - Manufacture and implementation of cab entry and exit fall prevention system
- **Boeing** - FEA modeling of Deep rolling
- **Precision Metal Processing** - Fabrication of fluted shafts
- **ATI Metals** - Thermal Conductivity Measurements of Additive Powders for Improved Modeling
- **ATI Metals** - Comprehensive Powder Layer Monitoring for Metal Additive Manufacturing
- **Evraz** - Impact of processing/microstructure changes on final properties
- **Weir ESCO** - Iso-Thermal Transformation in High-Strength Steels
- **ATI** - Assessing the role of composition and temperature on the mechanical properties of niobium alloys
- **Weir ESCO** - Site-Specific Calibration of DEM Material Models
- **Skore, LLC** - Manufacture of a calibration and testing device for a martial arts and boxing training tool
- **ATI** - Evaluation of Nb₂O₅-HfO₂ at High temperatures with Additions of Ta₂O₅ and Lu₂O₃
- **Con Met** - Vehicle Energy Harvesting
- **Weir ESCO** - Elevated temperature property determination of high strength steels
- **Oregon Tool** - Fabrication and Validation of a Spindle-Assembly Test Machine
- **Erectors, INC** - Create an installation tool for prefabricated wall panels
- **Oregon Tool** - Transfer of Miniswath Test Machine
- **Oregon Tool** - Quantitative Measure to Assess Mower Clipping Dispersion, Uniformity of cut and quality of cut
- **OnTo Technology** - Cathode-Healing for Recycling and Manufacturing of Lithium-ion Batteries
- **Weir ESCO** - Wire Additive Manufacturing feasibility study using the Meltio system
- **Tillamook County Creamery Assoc.** - Enhanced Automation for food and beverage manufacturing equipment
- **THP** - Localized surface properties modification for adhesion and wettability control using plasma jet technology
- **NuScale** - Selection and testing of materials compatible with liquid metal fuel
- **さし** - Gen5 Packaging for Advanced Cell Sensing and Handling
- **PCC Structurals** - Composite Chassis Design for an Electric Formula Student Vehicle
- **Oregon Dairy & Nutrition Council** - Enhanced automation for cheese manufacturing equipment
- **Erath Family Foundation** - Enhanced management of wine fermentations
- **AgWest Farm Credit** - Enhanced automation and efficiency in cleaning processes of winery tanks

Visit OREGONMETALS.ORG



Watch our case study video to see how the Oregon Metals Initiative supports OSU's engineering students, fuels innovation, and boosts Oregon's economy.