

UNIVERSITY of WASHINGTON

MECHANICAL ENGINEERING, ADVANCED MATERIALS & MANUFACTURING

ASSOCIATED FACULTY

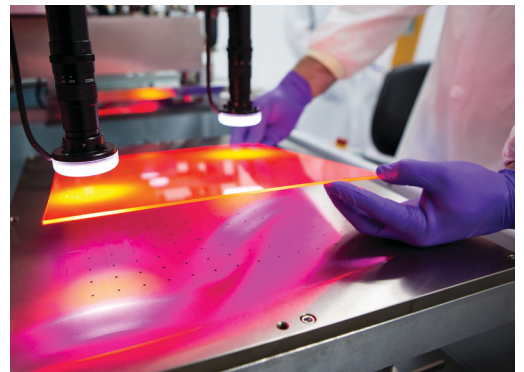
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NOTABLE PARTNERS

The Boeing Company
ElectroImpact
Janicki Industries
PACCAR
Ricoh USA
Safran
State of Washington

OVERVIEW

UW Mechanical Engineering is helping to advance materials and manufacturing and strengthen the innovation ecosystem in the State of Washington and the nation. Washington is at the forefront of advanced manufacturing — using technology to improve products, services and processes. It has a growing health technology and medical device industry, as well as the most robust aerospace cluster in the world. Next-generation materials and systems will be knowledge-intensive and will require innovations that leverage emerging information and sensing technologies. The new processes and solutions being developed in our labs are helping to create a stronger, more sustainable, globally competitive manufacturing sector.



KEY RESEARCH AREAS

- Additive and digital manufacturing
- Advanced composite materials and structures
- Biomanufacturing
- Fracture mechanics and fatigue
- Machine learning and big data
- Modeling, simulation and sensors
- Nanotechnology
- Printed and flexible electronics
- Robotics and human interaction
- Self-assembly manufacturing

