

## ADVANCED MATERIALS

London manufacturers are using advanced materials like composites and polymers in aircraft, military equipment, lightweight watercraft, medical devices and building products.

From [Hudson Boat Works](#)' Olympic-class rowing shells to [Diamond Aircraft](#)'s complete line of piston aircraft, made-in-London products are recognized globally for leading technology and superior performance.

### Infrastructure

- The [Collider Centre for Technology Commercialization](#) provides industrial space, business services and access to contract research, material/product characterization, and testing to help businesses accelerate the development and commercialization of their products.

### Research and Development

- Western University researchers are [designing, developing and creating new materials](#) including metals, polymers, nanomaterials, composites materials, biomaterials and materials for energy.
- The [Fraunhofer Project Centre](#) is North America's first full-sized production environment for the development, testing and validation of lightweight materials.
- Western University's [Centre for Advanced Materials and Biomaterials Research](#) (CAMBR) unites 50+ research groups with strengths in materials synthesis and processing, computation, characterization of structure and properties, surface science and engineering and biological evaluation.
- [Surface Science Western](#) (SSW) is a consulting and research laboratory specializing in the analysis and characterization of surfaces and materials. SSW helps clients facilitate development and production, decrease costly returns, innovate processes, and increase profitability.
- The [Particle Technology Research Centre](#) (PTRC) is a world leader in the development, research and innovation of powder technologies.
- [Lanxess Inc.](#) is a leading specialty chemicals company with an R&D Centre for plastics, rubber, and specialty chemicals at Western's Research Park.

### Talent

- [Renaissance Aeronautics Associates](#) offers advanced composites training with courses in composites structures, manufacturing maintenance and repair.
- Fanshawe College offers courses in [Materials Sciences](#) to train talent in manufacturing, testing, and applications of materials found in fabrication facilities.
- Western University offers programs and courses in [Materials Science, Biomaterials, and Mechanical and Materials Engineering](#).