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Research Theme

Aerospace and Transportation Materials and Manufacturing (ATMM)

Research Areas

- Stress analysis in metal castings, components, and joints;
- Solidification, phase evolution and transformation;
- Lightweight alloy development for automotive and aerospace industries;
- Phase and structural transformation;
- Material properties - ferrous and lightweight alloys and metal matrix composites;
- Ferrous and non-ferrous alloys: casting, heat treatment, and forming technologies.

Research Facilities/Tools

- Neutron diffraction
- X-ray diffraction
- Optical and SEM microscopy
- In-situ high temperature testing and fitness-for-service characterization.



Canadian Nuclear
Laboratories

