



## Special Interest Group on Precision Freeform Fabrication Technologies

The Precision Freeform Fabrication Special Interest Group is designed to help Canadian industry adopt the latest technologies for manufacturing parts and tooling. NRC-IMTI provides freeform laser consolidation and rapid product manufacturing process capabilities to members. Projects are defined in collaboration with the members. The generic technologies developed are essential to these end users, such as product designers, original equipment manufacturers, component and system suppliers, material and equipment suppliers, and mould, tool and die makers for the automotive, aerospace, electronics and other product manufacturers.



*Pre-competitive collaborative research*

This proven collaboration model provides a cross-functional technology platform to forge durable relationships with key industrial partners, to maximise the impact through collaborative pre-competitive projects and to increase the awareness level in industry and academia. The SIG projects may benefit members in areas of cost reduction, time reduction and quality improvements through:

### Improvements in development cycle time:

- Prediction of engineering requirements to launch new products



- Reduction of problems and ramp-up time
- Improved market response time.

**Improvements to products and processes:**

- More efficient processes and reduced costs
- Improved quality & product consistency
- Improved robustness and capital utilization.

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