

THE LASER INSTITUTE

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Product/Service: Contract research, development and engineering involving laser applications particularly in materials processing, laser and fiber optic-based sensors, robotics and machine vision. Laser cutting, welding heat treating and cladding.

Keywords: Lasers, laser applications, fiber optics, opto-electronics, materials processing, sensing, machine vision, robotics.

Recent Successes:

- Laser welding in micro-gravity and vacuum. (Contract Research supported under the User Development Program of the Canadian Space Agency).
- Laser Assisted Metal Arc Welding (supported by DREA).
- Laser Glazing of Bronze Alloys (supported by DREA).
- Parametric Study of ArXe Laser (supported by DREV).
- Distributed Fiberoptic Strain Sensor (supported by industry).
- Laser Scanning System (supported by industry).
- Laser Autobody Alignment System (supported by industry).
- Many smaller R&D contracts and/or feasibility studies involving lasers and related technologies and a large number of laser materials processing projects particularly precision laser cutting of a wide variety of materials.

Of Special Note: TLI is interested in participating in joint projects involving laser applications particularly materials processing, sensing and robotics.