

# ADVANCED MANUFACTURING TECHNOLOGY ADOPTION

There are a great deal of buzz-words and technical jargon related to the rapidly growing field of Advanced Manufacturing: Industry 4.0, AI, Machine Learning, Robotics, Machine Vision, Additive, Cognitive, IoT, etc. Technology is moving fast, and all the while production and day-to-day business activities don't stop; it's no surprise that it can be hard to keep up with it all.

RPC can help you navigate through the field of Advanced Manufacturing. Let our experts work with you and your staff to identify opportunities to adopt technology to help improve productivity and quality within your operations. With the generous funding support from ACOA, here is how RPC can help:

## ON-SITE ASSESSMENTS

Assessments are conducted by qualified professionals and look for opportunities for automation, robotics, machine vision, data collection, process optimization, data analytics and 3D printing to improve operating efficiency and quality within your operations.

The initiative provides firms with:

- On-site assessment and mapping of current process
- Identification and study of process bottlenecks;
- Identification of potential advanced manufacturing technology solutions;
- A detailed report with opportunity rankings and recommendations based on factors like ROI, project complexity, human factors, training needs, budget etc.

### AMOUNT OF ASSISTANCE AVAILABLE

Approved companies are eligible for 75% funding of the total assessment costs which will vary depending on the size and complexity of your operation. The typical assessment total-cost range is \$10,000-\$25,000.

## PROOF-OF-CONCEPTS

To help verify the ROI and de-risk potential technology adoption projects, RPC will utilize our Robotics & Automation Lab in Fredericton (or source another solution provider as needed) to develop and demonstrate proof-of-concept mock-ups of actual automation and technology solutions specific to your application. RPC's wash-down lab is well equipped with a wide array of technology including:

- Robotic systems (SCARA, 6-AXIS & Delta)
- Machine-vision & deep-learning camera systems
- Smart sensors and IoT devices
- Conveyance systems
- 3D printers

### AMOUNT OF ASSISTANCE AVAILABLE

Approved projects are eligible for 70% funding of the proof-of-concept costs which will vary depending on the scope of work to be undertaken. The typical proof-of-concept total-cost range is \$30,000-\$50,000.

## WHO IS ELIGIBLE?

Incorporated Atlantic Canadian manufacturers who demonstrate the desire and the capacity to integrate new, innovative technologies into their traditional practices.

Eligible firms must demonstrate:

- capacity and willingness to grow;
- strong management team;
- focus on innovation;
- ability and willingness to invest time and resources to expand;
- engagement in productivity or continuous improvement initiatives.

## HOW TO GET STARTED

Contact RPC: **André Pelletier, Ph.D, EIT, Business Development Specialist**  
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