

**Plant Size:** 27,000 sq ft

**Equipment:** Their equipment includes lathes, borers, milling machines, profilers, drills, honing machines, and grinders. They have a hydraulic assembly and test facility for all hydraulic assemblies and parts manufactured by the company. They are currently bringing their NC capability up to speed.

**Experience:** Aero principal customers include Air Canada, Canadair Ltd, Canadian Marconi, Douglas Aircraft, GE, United Aircraft, DeHavilland, Grumman Aircraft, and Canadian Vickers Ltd.

**Keywords:** 1 = Aircraft; 12 = Machining; 13 = Missiles; Titanium = 12; Tooling = 12; Die Fabrication = 12; Hydraulic Servos = 1, 12; Landing Gear Components = 1, 12; Airframe Parts = 1, 12; Missile Parts = 12, 13.

**Revised:** Dec 83

## ALBERTA RESEARCH COUNCIL

**Code:** ARC

**Address:** Executive Offices  
7th Floor, Terrace Plaza  
4445 Calgary Trail South  
Edmonton, Alberta, Canada T6H 5R7

**Contact:** Ms. Dorothy M Hollands, Corporate Secretary & Dir of Public Relations - (403) 438-1666

**History:** The Alberta Research Council is a provincial Crown Corporation founded in 1921 to advise the Alberta Government on scientific affairs and to promote the economic growth of Alberta through scientific and engineering research. It has over 500 employees at offices and laboratories mainly in Edmonton, and at offices in Calgary, Red Deer, Nisku, and Lethbridge.

**Capability:** The Research Council has established in its Long Range Plan five major areas of research - industrial and engineering research and assistance, oil sands, coal, natural resources, and frontier sciences. The industrial and engineering research program includes research activities in transportation, surface water engineering, projects in forest products, alternate energy and energy conservation. It also runs a gasoline and oil testing laboratory and provides short-term advisory and technical services to manufacturing companies in Alberta. Oil Sands Research includes geology studies, heavy oil cracking, and in-situ recovery. Coal research includes geology studies, liquefaction, pyrolysis, coal property definition, and gasification. Natural resources research activities include geological survey, soils surveys, ground-water, and atmospheric sciences research. Frontier science projects include research into new catalysts, electro-organic reactions, low temperature biology, and enzyme design studies using genetic engineering techniques.

**Average Work Force:** Scientists, Engineers, & Research Technicians

**Gross Sales:** The Research Council operates on a \$38 million budget in 1983-84, half of which comes in the form of an annual provincial grant, and the other half which comes from contracts with provincial government departments and private industry.

**Plant Size:** 279,000 ft<sup>2</sup> (26,000 m<sup>2</sup>) (1982)  
505,250 ft<sup>2</sup> (47,000 m<sup>2</sup>) (1984)  
580,500 ft<sup>2</sup> (54,000 m<sup>2</sup>) (1987)

**Equipment:** The Research Council has a range of equipment for carrying out studies on oil sands and coal technology from fundamental science to bench scale pilot work; sophisticated chemical analytical instruments; distributed computing equip-

ment. Its digital weather radar data archived on magnetic tape. The overall display allows the analyst to examine radar echoes. These data are used for storm analysis, hail description, flood prediction, aircraft-storm interaction or avoidance and spacecraft re-entry.

**Experience:** Weather Modification - Contract with Alberta Agriculture.  
Flood Forecasting - Contract with Alberta Environment.  
Radar Development - Contract with Environmental Research and Development (US).  
Digital Radar Data Processing - Contract with Fundacao Educacional de Bauru, Brazil.  
Satellite/Radar Rainfall Measurement - Contract with Canadian Atmospheric Environment Service.

Experience in other areas of natural resources research and in research on oil sands, coal liquifaction, frontier sciences (biotechnology and hydrocarbon research), and industrial and engineering areas available on request (see keywords below).

**Keywords:** 4 = Chemistry; 8 = Energy; 9 = Environment; 15 = Radar; 17 = Software Services; 18 = Space Systems; 19 = Testing/Test Equipment; 20 = Miscellaneous; Meteorology = 15; Digital Data Processing = 9, 15; Computer Graphics = 9; Statistical Analysis = 9; Weather Forecasting = 9; Cloud Seeding = 9; Cloud Physics = 9; Weather Modification = 9; Convective Storms = 9; Hydrometeorology = 9; Precipitation Measurement = 9, 15, 18; Flood Forecasting = 9; Air Pollution = 9; Numerical Modelling = 9, 17; Biology = 20; Microbiology = 20; Chemical Processing = 4; Industrial Engineering = 20; Products Testing = 19; Materials Testing = 19; Transportation = 20; Oil Sands = 8; Coal Liquefaction = 8; Coal Pyrolysis = 8; Geology = 8, 9; Soils = 8, 9; Water = 8, 9; Ground Water = 8, 9; Surface Water = 8, 9.

**Revised:** Dec 83

## AMTEK MANAGEMENT Inc

**Code:** AMI

**Address:** 120 Holland Ave  
Ottawa, Ontario, Canada K1Y 0X6

**Contact:** Mr. L E McClare, VP Operations - (613) 728-1831

**History:** AMTEK was formed in 1981 as a wholly owned Canadian company. It was formed to provide services to governments and industries on Integrated Logistic Support (ILS); Automatic Test Equipment; and contract and program management.

**Capability:** AMTEK is a leader in Canada in the field of integrated logistic support having supplied services to Canada's major acquisition programs - CP140 Aurora purchased from Lockheed, CF18 from McDonnell-Douglas, the Canadian Patrol Frigate Program, Low Level Air Defense, and Gun alignment and control system. ILS development services have been provided to DND, Litton Systems Ltd, Canadian Marconi, and Leigh Instruments Ltd.

AMTEK has provided field service support to the Canadian government for Automatic Test Equipment. The company also provides training in electronics, ATE, procurement and contract management.

**Average Work Force:** 20 (Engineers & Technologists)

**Gross Sales:** 1983 - \$1.2M

**Plant Size:** 4,500 sq ft

**Experience:** AMTEK clientele includes Department of National Defense, Department of Supply and Services, Royal New Zealand Air Force, Canadian Marconi, Litton Systems