



EXCELLENCE

Alberta

RESEARCH

Alberta's strong research base attracts world-class researchers, companies, and research organizations. Examples of Alberta research and development organizations include:

National Institute for Nanotechnology (NINT) www.nint.ca

Canada's premier nanotechnology research institute, a provincial-federal initiative, is an integrated, multi-disciplinary institution involving several hundred researchers in physics, chemistry, engineering, biology, informatics, pharmacy and medicine. This 15,000 square metre facility is one of the world's most technologically advanced research facility and houses the 'quietest' laboratory space in Canada with ultra-low vibration and minimal acoustic noise or electro-magnetic interference.

Alberta Research Council Inc. (ARC) www.arc.ab.ca

ARC partners in strategic ventures to help companies develop early stage ideas into marketable products and services. ARC is a trusted resource for over 900 companies, government agencies, and research organizations around the world in the energy, life sciences, agriculture, environment, forestry, and manufacturing sectors. More than 500 scientists, engineers, business managers, and support staff maintain a multi-million dollar infrastructure of over 100,000 square metres of specialized bench, large-scale manufacturing, and pilot scale facilities.

Informatics Circle of Research Excellence Inc. (iCORE) www.icore.ca

Exceptional people produce exceptional results. iCORE was established by the Government of Alberta to attract world-class university technology researchers. iCORE targets the highest caliber research scientists in the areas of networks and communications, high performance computing, human and computer interfaces, intelligent information systems, bioinformatics, software systems, and new architectures and devices. Currently 24 research teams are working on solutions and new discoveries in these areas.

TRLabs www.trlabs.ca

TRLabs is Canada's largest research consortium (industry, university, government) in information and communications technology. The research program is based on industry/university collaboration that produces original, industry-relevant, pre-competitive research with a time horizon of one to five years. TRLabs operates five laboratories in Western Canada where university professors, graduate students, industrial partners, and staff researchers work together to conduct applied research.

Life Sciences Industries Branch

5th Floor, Phipps-McKinnon Building
500, 10020-101 Avenue, Edmonton, Alberta, Canada T5J 3G2
Phone: 780-427-6618 | **Fax:** 780-427-5924

www.technology.gov.ab.ca

Alberta Cancer Board (ACB) www.cancerboard.ab.ca

Alberta is a leading centre for cancer expertise in North America. The ACB coordinates cancer research, prevention, and treatment programs in 17 cancer treatment facilities, including the Cross Cancer Institute and the Tom Baker Cancer Centre. The Government of Alberta provides annual operating funds to ACB. In addition, in 2005 the \$500 million Alberta Cancer Prevention Legacy Fund was established to support additional cancer prevention and research.

Alberta Ingenuity Fund www.albertaingenuity.ca

A \$1 billion endowment fund, to develop internationally competitive science and engineering expertise in Alberta through the following entities and other programs:

- **Alberta Prion Research Institute** www.prioninstitute.ca
- **Alberta Ingenuity Centre for Carbohydrate Science** www.aiccs.com
- **Alberta Ingenuity Centre for Machine Learning** www.aicml.ca
- **Alberta Ingenuity Centre for Water Research** www.aicwr.ca
- **Alberta Ingenuity Centre for In Situ Energy** www.aicise.ca

Alberta Heritage Foundation for Medical Research (AHFMR) www.ahfmr.ab.ca

Through a \$1.5 billion endowment fund, AHFMR supports both biomedical and health research at Alberta universities, affiliated institutions, and other medical- and technology-related institutions. Since 1980, the foundation has directly contributed more than \$850 million to the scientific community. In 2004, an International Board of Review applauded AHFMR on its record of programs and achievements.

International Recognition

Researchers that have garnered recognition from the international research community include:

- **Dr. Samuel Weiss**, University of Calgary scientist wins prestigious Gairdner International Award; one in four Gairdner awardees has gone on to win a Nobel Prize.
- **Drs. Richard Wozniak, Richard Rachubinski and Michele Barry**, all University of Alberta researchers, are recent recipients of Howard Hughes Medical Institute International Research Scholarships.
- **Dr. Gerrard Lachapelle** has helped make Calgary an internationally recognized centre of excellence for GPS. Among other international awards and distinctions, he has been named a Fellow of the Royal Institute of Navigation (UK), and Fellow of the US Institute of Navigation.
- **Dr. Robert Burrell** holds more than 30 US patents and patent applications. In 1995, he made one of the most significant advances in wound-care history—dressings made using nanocrystalline silver technology. The dressing is used in burn units around the world.
- **Dr. Jonathan Schaeffer** developed the checkers program, Chinook, the first computer program to win a human world championship in any game—an accomplishment noted in the Guinness Book of World Records. He is a Fellow of the American Association for Artificial Intelligence.
- **Dr. Richard McCreery**, a leading American chemist in molecular-scale electronics, relocated to Alberta to continue his research at NINT. He is a recipient of the C.N. Reilley Award, American Chemical Society Award in Electrochemistry and a Fellow of the Electrochemical Society.
- **Dr. Garnette Sutherland** and his team spent six years, in cooperation with MacDonald, Dettwiler and Associates Ltd. (MDA), designing the world's first MRI-compatible surgical robot. "NeuroArm", at the University of Calgary/Calgary Health Region, aims to revolutionize neurosurgery.

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