



RESEARCH
WORKS

2000

Research works




Founded in 1908, the University of Alberta has an enrolment of more than 30,000 students and a staff of 9,000. One of Canada's largest research-intensive, full-service universities, the University of Alberta in 1999-2000 attracted approximately \$214 million in external research funding, including clinical trials research, and a partnership share in the research at Tri-Universities Meson Facility [TRIUMF] headquarters in Vancouver.

The largest research institution in the province, the University of Alberta is significantly increasing its research capability, extending its industrial and government partnerships, and is a major engine of economic development through the transfer of University-based technology and knowledge to the commercial sector.

Research Works is an acknowledgement of the many partners – industry, foundations, government agencies and other organizations – with and for which University of Alberta researchers carry out their work. It sets out the economic impact of the University's research activity on the Edmonton, Alberta and Canadian economies. Research works in many ways, from bringing new technologies to market to providing employment to thousands of people in Edmonton and across Alberta.

Most of all, research works by accomplishing what a great university does best: creating and disseminating knowledge.

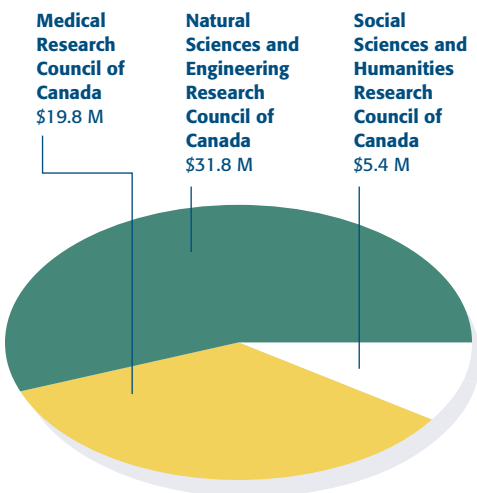
(Please note: the names of our funding partners may appear more than once in different categories.)



Federal Granting Councils, University of Alberta Funding, 1999-2000 (in millions of dollars)

The University of Alberta is in the top five Canadian universities in research funding from the three Federal Government granting councils.

Total Funding: \$57.0 million



Research Puts People to Work

University of Alberta research funding is responsible for the creation of more than 11,230 direct and indirect jobs at the University of Alberta, in Edmonton and across Alberta.

In 1999-2000, 3,874 University employees were paid through sponsored research:

- 1,296 are full-time staff
- 2,578 are part-time staff, of whom almost 1,830 are students
- salaries and benefits totalled more than \$81,400,000 in 1999-2000.

An estimated 7,360 full-time and part-time jobs have been created indirectly **outside** the University as a result of its sponsored research funding.

\$2 Billion by 2005

UNIVERSITY OF ALBERTA

\$2 Billion by 2005

Since 1988-1989, the University of Alberta has received more than \$1,382,000,000 for research from external sources. The University has set itself a target of attaining a cumulative total of \$2 billion in external research funding by the year 2005.

Annual Research Funding 1995/1996 - 1999/2000

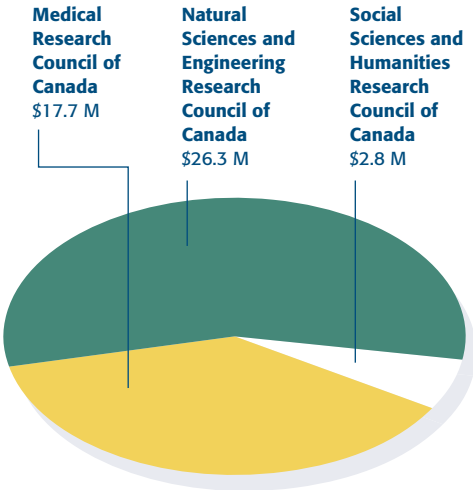
Over the past five years, annual research funding has increased by 64.2%.



Federal Granting Councils, University of Alberta Awards, 1999-2000 (in millions of dollars)

The University of Alberta is in the top five Canadian universities in research awards from the three Federal Government granting councils.

Total Funding: \$46.8 million



Research Puts People to Work

University of Alberta research funding is responsible for the creation of more than 11,230 direct and indirect jobs at the University of Alberta, in Edmonton and across Alberta.

In 1999-2000, 3,874 University employees were paid through sponsored research:

- 1,296 are full-time staff
- 2,578 are part-time staff, of whom almost 1,830 are students
- salaries and benefits totalled more than \$81,400,000 in 1999-2000.

An estimated 7,360 full-time and part-time jobs have been created indirectly **outside** the University as a result of its sponsored research funding.

Research works



Research Works

because of Federal Networks of Centres of Excellence



University of Alberta researchers participate in seventeen of the eighteen Federal Networks of Centres of Excellence (NCEs). The NCE program was begun in 1990, and in 1997 was made permanent by the federal government. NCEs are unique partnerships among industry, universities and government intended to develop the Canadian economy and improve our quality of life.

In 1997-1998, a total of 61 universities, 463 companies, more than 100 provincial and federal government departments and agencies, 44 hospitals, and more than 200 other organizations from Canada and abroad were involved in the NCE program. Since their inception, the NCEs have stimulated outside investment of more than \$200 million, including in excess of \$150 million from private sector companies.

Two of the Networks, Protein Engineering Network (PENCE) and Sustainable Forest Management Network, have their national scientific and administrative headquarters at the University of Alberta.

As well, the University is the headquarters of the Prairie Centre of Excellence for Research on Immigration and Integration, established in 1996.

- Canadian Arthritis Network
- Canadian Bacterial Diseases Network (CBDN)
- Canadian Genetic Diseases Network (CGDN)
- Canadian Institute for Photonic Innovations (CIPI)
- Canadian Institute for Telecommunications Research (CITR)
- Canadian Network for Vaccines and Immunotherapeutics of Cancer and Viral Diseases (CANVAC)
- Canadian Stroke Network (CSN)
- Geomatics for Informed Decisions (GEOIDE)
- Health Evidence Application and Linkage Network (HEALNet)
- Institute for Robotics and Intelligent Systems (IRIS)
- Intelligent Sensing for Innovative Structures (ISIS)
- Mathematics of Information Technology and Complex Systems (MITACS)
- Mechanical Wood-Pulps Network
- MICRONET - Microelectronic Devices, Circuits and Systems
- Protein Engineering Network of Centres of Excellence (PENCE)
- Sustainable Forest Management Network
- TeleLearning Network of Centres of Excellence

Research works

Research Works

because of major contributions for research and endowed chairs

- Alberta Cancer Board Chair in Palliative Care
- Alberta Conservation Association Chair in Fisheries and Wildlife
- Alberta Construction Association/NSERC Senior Industrial Research Chair in Construction Engineering and Management
- Alberta Heart Foundation Chair in Cardiovascular Research
- AltaRex/MRC Chair in Tumour Immunology
- Walter Stirling Anderson Chair in Surgery
- Astra Chair in Asthma Research
- Ronald K. Bannister Chair in Business
- Max Bell Foundation
- Belzberg Chair in Constitutional Law
- Chair in Bioethics
- Biomira/MRC Chair in Immunoconjugates
- Breton Plots Endowment Fund
- Bristol-Myers Squibb Chair in Protein and Peptide Metabolism
- John Carter Callaghan Endowed Chair in Cardiothoracic Surgery
- C.W. Carry Chair in Steel Structures
- Carthy Foundation Chair in Business
- Chartered Accountants Chair
- Certified General Accountants of Alberta Chair in Accounting
- A.F. (Chip) Collins Chair in Finance
- Cooperative Chair in Agricultural Marketing and Business
- George M. Cormie Professor of Business
- Firefighters Chair in Burn Research
- Eldon D. Foote Chair in International Business/International Law
- George Ford Chair in Materials Engineering
- J. Alan Gilbert Chair in Medical Education
- Glaxo Wellcome Chair in Viral Research
- Thornton A. Graham Chair in Business
- Dr. J.T. Hugill Professorship in Pain Management

- Huculak Chair in Ukrainian Culture and Ethnography
- Chair in Industrial Safety and Loss Management
- C.R. James/MPB Technologies/NSERC Senior Industrial Research Chair in Laser and Spectroscopic Techniques Applied to the Natural Resources Industry
- Stephen A. Jarislowsky Distinguished Chair in Finance
- The Killam Memorial Professorships (2)
- Walter C. Mackenzie Visiting Professorship
- Merck Frosst/MRC Chair in Pharmacoeconomics
- Stanley A. Milner Chair in Leadership
- Muttart Chair in Clinical Immunology and Autoimmunity
- Micralyne/NSERC Senior Industrial Research Chair in Thin Film Engineering
- NOVA/NSERC Senior Industrial Research Chair in Advanced Pipeline Materials
- NOVA/NSERC Junior Industrial Research Chair in Welding and Corrosion
- Chair in Petroleum Engineering
- David Peikoff Chair in Deafness Studies
- Peter H. Pocklington Chair in Free Enterprise
- Ernest E. and Gertrude Poole Chair in Management for Engineers
- Ernest E. and Gertrude Poole Professorship in Technology Management
- Strathcona County/R.U. Lemieux Chair in Carbohydrate Chemistry
- Syncrude/NSERC Senior Industrial Research Chair in Advanced Upgrading of Bitumen
- Syncrude/NSERC Industrial Research Chair in Oil Sands Research
- Taiho Endowed Foundation (for Canada/Japan collaboration in pharmaceutical research)
- TELUS Chair in Strategic Management
- Henry Marshall Tory Chairs (various disciplines)
- Henri M. Toupin Chair in Neurological Sciences
- Tripartite Chair in Occupational Health
- The Variety Club and Northern Alberta Children's Hospital Foundation Pediatric Clinical Research Professorship
- Winspear Foundation Distinguished Chair in Professional Accounting
- Matrikon/ASRA/NSERC Senior Industrial Research Chair in Computer Process Control

International Associations, Institutions, Foundations and Government Agencies are...

.....

partners in research at the University of Alberta

.....


- African Economic Research Consortium
- American Association of Colleges of Pharmacy
- American Bryological/Lichen Society
- American Chemical Society
- American Water Works Association Research Foundation
- Ara Parseghian Medical Research Foundation
- Arizona Department of Game and Fish
- Astra Research Centre Boston
- Egyptian Cultural and Educational Bureau
- Eosinophil Society (Sweden)
- Fight for Sight Inc.
- Food and Agricultural Organization (United Nations)
- Foundation Fighting Blindness Inc.
- Francis Families Foundation
- Genetics Institute Inc.
- Geological Survey of Denmark and Greenland
- Glaucoma Foundation
- Group Psychotherapy Foundation
- Howard Hughes Medical Institute
- Huntington's Disease Society
- Idaho Department of Fish and Game
- International Institute for Environment and Development
- International Ozone Corporation Inc.
- Ischemia Research and Education Foundation
- Juvenile Diabetes Foundation International
- March of Dimes
- Mayo Foundation
- National Alliance for Research on Schizophrenia and Depression

- 
- National Aeronautics and Space Administration (NASA)
 - National Geographic Society
 - National Institutes of Health (US)
 - National Kidney Foundation (US)
 - National Mining Association (US)
 - National Research Institute of Chinese Medicine
 - Noguchi Foundation (Japan)
 - North American Loon Fund
 - North Atlantic Treaty Organization
 - Oncology Nursing Foundation
 - Palm Oil Research Institute
 - Parkinson's Disease Foundation
 - Prevent Blindness America
 - Roche Organ Transplantation Research Foundation
 - Rural Development Administration of the Republic of Korea
 - Schlumberger Foundation
 - Seismological Society of America
 - Sigma Tau
 - Sigma XI Scientific Research Society
 - Society of Wetlands Scientists
 - State of Alaska
 - United States Department of Agriculture, Forest Service
 - United States Department of National Defense
 - United States Department of the Army
 - United States Department of the Interior
 - Whooping Crane Conservation Association
 - Wyoming Game and Fish

Canadian businesses invest

Canadian businesses invest in research linkages and partnerships at the University of Alberta

- ACT Technologies
- Agricore Cooperative Ltd.
- Agrium Inc.
- Ainsworth Lumber Inc.
- Alberta Aspen Board Ltd.
- Alberta Canola Producers' Commission
- Alberta Chicken Producers' Marketing Board
- Alberta Construction Industry
- Alberta Egg Producers' Board
- Alberta Energy Co.
- Alberta Energy and Utilities Board
- Alberta Hatching Egg Marketing Board
- Alberta Milk Producers' Society
- Alberta Motor Association Inc.
- Alberta Newsprint Co.
- Alberta-Pacific Forest Industries Inc.
- Alberta Pork Producers Development Corporation
- Alberta Power
- Alberta Real Estate Foundation
- Alberta Turkey Growers' Marketing Board
- Alberta Wheat Pool
- Alliance Pipeline
- Allelix Inc.
- Almita Manufacturing Ltd.
- AltaRex Inc.
- Alternative Fuel Systems Inc.
- AltiMed Pharmaceutical Co.
- Aqualta Inc.
- Amoco Canadian Petroleum Co. Ltd.
- ANC Timber Ltd.
- Angiotech Pharmaceuticals Inc.
- Apotex Inc.

- 
- Arbor Acres Farms
 - AstraZeneca
 - AT Plastics Inc.
 - ATCO Ltd.
 - AVAC Ltd.
 - Aventis CropScience Canada
 - BASF Canada Inc.
 - Baxter Corporation
 - Bayer Inc.
 - Beef Information Centre
 - Bell Northern Research
 - Bennett Jones LLP
 - Berkley Petroleum Corp.
 - BHP Diamonds
 - BioChem Pharma Inc.
 - Bishop and McKenzie Barristers and Solicitors
 - BioMega Inc.
 - Biomira Inc.
 - Blue Ridge Lumber
 - Boehringer Ingelheim Canada Inc.
 - Bristol-Myers Squibb Canada Inc.
 - Border Paving Ltd.
 - Boreal Laser Inc.
 - BP-Tec Engineering Group Ltd.
 - Briana Bio-Tech Inc.
 - Buchanan Lumber
 - Calgon Carbon Corp.
 - Canadian Broiler Hatching Egg Marketing Agency
 - Canadian Egg Marketing Agency
 - Canadian Football League
 - Canadian Forest Products Ltd. – Alberta
 - Canadian Petroleum Products Institute
 - Canadian Policy Research Networks
 - CanBiocin Inc.
 - Canfor Corp.
 - Capital Care Group Inc.
 - Cartons St-Laurent Inc.
 - CEL Corporation Inc.
 - Celanese Canada

in research linkages and partnerships at the University of Alberta

.....

- C-FER Technologies Inc.
- Chai-Na-Ta Corp.
- Chapel Rock Consulting
- Chem Security (Alberta) Ltd.
- Chevron Canada Resources
- Chieftain International Inc.
- Cirrus Environmental Services Inc.
- Colt Engineering
- Computing Devices Canada
- Crestar Energy Inc.
- CytoVax Biotechnologies Inc.
- D&S International Consultants
- Daishowa-Marubeni International Ltd.
- Dairy Farmers of Canada
- Dayton and Knight Ltd.
- DDR Manufacturers and Distributors Inc.
- Decon Studrail Inc.
- Deloitte & Touche
- Dendronic Decisions Ltd.
- Dofasco Inc.
- Dow Agrosiences Canada Inc.
- Dow Chemical Canada Inc.
- Duncan and Craig Barristers and Solicitors
- Ecotemp International
- Edmonton Journal
- Edmonton Oilers Hockey Club
- Electronic Arts (Canada) Inc.
- Eli Lilly Canada Inc.
- Enar Securities Ltd.
- Enbridge Pipelines
- Environmental Science and Technology Alliance Canada
- EPCOR
- Ernst and Young
- ESBI Alberta Ltd.
- Europa Travel
- Express Pipeline Inc.
- Factors Laboratories Inc.
- Farlie Travel Ltd.

Canadian businesses invest

- Field Atkinson Perraton Barristers and Solicitors
- Finning (Canada)
- Fisher Scientific
- Fisons Instruments Inc.
- Foothills Forest
- Foothills Pipe Lines Ltd.
- Fording Coal
- Fort McKay Industry Relations Corporation
- Fountain Tire
- Fournier Pharma Inc.
- Fraser Milner Casgrain Barristers and Solicitors
- Fraser Paper Inc.
- Fujisawa Canada Inc.
- GCHEM Environmental Services
- General Electric Canada
- Genex Swine Group Inc.
- Geospec Consultants Ltd.
- Geo-X Systems Ltd.
- Glaxo Wellcome Inc.
- Great Northern Silage
- Greey-Lightnin
- Guilford Press
- Gulf Canada Resources Ltd.
- Hatch Associates Inc.
- Henry Singer Co.
- Hibernia Management and Development
- High Level Forest Products
- Hoechst Marion Roussel
- Hoffman-La Roche
- Hungry Coyote Ltd.
- Husky Oil Ltd.
- Hybrid Turkeys Inc.
- Hydrocarbon Technologies Canada Inc.
- IBM Canada
- Imex Pharmaceuticals Corp.
- Imperial Oil Ltd.
- Imperial Oil Chemicals Division

in research linkages and partnerships at the University of Alberta

.....

- Imperial Oil Resources Ltd.
- INCO Ltd.
- Inex Pharmaceuticals Inc.
- Inland Cement Ltd.
- Inland Construction Ltd.
- International Forest Products Ltd.
- Iogen Corp.
- Isotechnika Inc.
- Janssen-Ortho Inc.
- Johnson & Johnson Inc.
- KC Environmental Group Ltd.
- Klinger's Oilfield and Industrial Services Inc.
- Koch Exploration Canada Ltd.
- Komex International Ltd.
- Krystaline Inc.
- Labatt Brewing Co.
- Lakeland Peat Moss Ltd.
- L&R Wang Enterprises
- Lincoln Associates Corp.
- Luscar Ltd.
- M2C International Inc.
- MacDonald Dettwiler & Associates
- Maclab Enterprises
- Macleod Dickson Barristers and Solicitors
- Manalta Coal Ltd.
- Manitoba Egg Producers
- Manitoba Model Forest Ltd.
- Manning Diversified Forest Products Ltd.
- Maple Leaf Poultry
- Masonry Canada
- Matheson Dorrance and Associates
- Maxxam Analytics Inc.
- McLennan Ross Barristers and Solicitors
- McQuaig Desrochers Barristers and Solicitors
- Medcan Health Management Inc.
- Melcor Developments Ltd.
- Merck Frosst Canada Inc.

Canadian businesses invest

- Merrill Lynch Canada Inc.
- Metabolic Modulators Research Inc.
- MDS Science Advancing Health
- MicroWear Corporation
- Millar Western Industries Ltd.
- Mistik Management Ltd.
- Micralyne Inc. (formerly Alberta Microelectronic Corp.)
- Mobil Oil Canada Ltd.
- Monsanto Canada Inc.
- MPB Technologies Inc.
- MTI Meta Tech Inc.
- NACE International, Canadian Region
- Napsochem Ltd.
- Natural Factors Nutritional Products Inc.
- Nestle Clinical Nutrition
- New England Biolabs
- NineDots Inc.
- Nortel
- Norterra Inc.
- North American Construction Group Inc.
- North American Road Ltd.
- Northwestern Utilities
- NOVA Chemicals Ltd.
- NOVA Gas Transmission Ltd.
- Novacor Chemicals Ltd.
- Novartis Pharmaceuticals Canada Inc.
- Novo Nordisk Canada Inc.
- Ocean Nutrition Canada
- Ogilvie and Co. Barristers and Solicitors
- Omni Film Productions
- Ontario Pork Producers' Marketing Board
- Organon Canada Inc.
- Ortho McNeil Inc.
- Osprey Pharmaceuticals
- Pacific Biotechnologies Inc.

in research linkages and partnerships at the University of Alberta

.....

- PanCanadian Petroleum Inc.
- PAPRICAN – Pulp and Paper Research Institute of Canada
- Parlee MacLaws Barristers and Solicitors
- Parmalat Canada
- Pasteur Merieux Connaught Inc.
- PCL Constructors
- Peace County Bison Association
- PetroCanada Oil and Gas
- Pharmaceutical Manufacturers Association of Canada, Health Research Foundation
- Pharmacia & Upjohn Inc.
- Pine Falls Paper Co.
- Pioneer Hi-Bred Ltd. (Canada)
- Pope and Talbot Ltd.
- Poultry Industry Council
- Powertech Labs
- Premier Horticulture Ltd.
- Quality Color Press Inc.
- QLT Phototherapeutics Ltd.
- Ranger Slave Lake Pulp Corporation
- Read Jones Christoffersen Inc.
- Relative Value Guide Commission
- RL&L Environmental Services Inc.
- Ross Breeders Inc.
- Royal Bank Financial Group
- St. Laurent Paperboard
- Salpep Biotechnology Inc.
- Sanofi Canada Inc.
- Schlumberger Canada
- Schlumberger Geco-Prakla
- Sciex Ltd.
- Select Therapeutics
- Servier Canada Inc.
- Shaver Poultry Breeding Farms Ltd.
- Shaw Cable Services
- Shell Canada Ltd.
- ShivaSoft Inc.
- Shoppers Drug Mart
- Slave Lake Pulp Corporation
- SmithKline Beecham Pharma

Canadian businesses invest

- Smoky River Coal Inc.
- Solray Pharma
- Somagen Diagnostics Ltd.
- Southbend Construction Co. Ltd.
- Specht – Canada
- Speco Engineering Ltd.
- SRW Technologies Inc.
- Stone Consolidated
- StrykerForge Consulting Inc.
- Subterranean Technologies Inc.
- Sun Gro Horticulture Canada Ltd.
- Svalof Weibull Seed Ltd.
- Syncrude Canada Inc.
- SYNSORB Biotech Inc.
- Talisman Energy Inc.
- TELUS Corporation
- 3M Canada
- Tire Craft Auto Centre
- Tolko Manitoba Inc.
- TransAlta Utilities Corporation
- TransCanada Transmission
- Ulster Petroleums Ltd.
- UMA Engineering
- Unique Oilfield Technology Services Ltd.
- Union Carbide Canada Ltd.
- Waiward Steel Fabricators Ltd.
- Warner Lambert Canada Inc.
- Wascana Energy
- Weldwood of Canada Ltd.
- Westaim Biomedical Corporation
- Western Forest Products Ltd.
- Weyerhaeuser Canada Ltd.
- Wigham Resources Ltd.
- Wi-Lan Inc.
- Wild Rose Agricultural Products
- Wyeth Ayerst Research (Canada)
- Zagros Pharma Ltd.
- Zeneca Pharma
- Zeneca Seeds

...to advance knowledge in agriculture, food and nutrition, renewable resources, forestry and agriculture-biotechnology

- Agricore Cooperative Ltd.
- Agrium Inc.
- Agriculture and Agrifoods Canada
- Ainsworth Lumber
- Alberta Agriculture, Food and Rural Development
- Alberta Agricultural Research Institute
- Alberta Barley Commission
- Alberta Canola Producers' Commission
- Alberta Cattle Commission
- Alberta Chicken Producers' Marketing Board
- Alberta Conservation Association
- Alberta Dairy Council
- Alberta Egg Producers' Board
- Alberta Elk Association
- Alberta Environmental Protection
- Alberta Environmental Research Trust
- Alberta Hatching Egg Marketing Board
- Alberta Health
- Alberta Heritage Foundation for Medical Research
- Alberta Learning (Advanced Education and Career Development)
- Alberta Milk Producers' Association Ltd.
- Alberta Newsprint Co.
- Alberta Oil Sands Technology and Research Authority
- Alberta-Pacific Forest Industries Inc.
- Alberta Pork Producers Development Corporation
- Alberta Potato Research Association
- Alberta Research Council
- Alberta Riparian Habitat Management Partnership

Research works

- Alberta Science and Research Authority
- Alberta Sport, Recreation, Parks and Wildlife Foundation
- Alberta Turkey Producers' Marketing Board
- Alberta Wheat Pool
- Arbor Acres Farms
- Association of Universities and Colleges of Canada
- AVAC Ltd.
- Aventis CropScience Canada
- BASF Canada Inc.
- Beef Information Centre
- BHP Diamonds
- Canada Foundation for Innovation
- Canadian Association of Petroleum Producers
- Canadian Broiler Hatching Egg Marketing Agency
- Canadian Forest Products Ltd. – Alberta
- Canadian Forest Service
- Canadian Police Research Centre
- Canadian Pork Council
- CanBiocin Inc.
- Canola Council of Canada
- Cartons St-Laurent Inc.
- Chai-Na-Ta Corp.
- City of Kelowna
- Cobb-Vantress Inc.
- Dairy Farmers of Canada
- Daishowa-Marubeni International Ltd.
- Danone Institute of Canada
- Dow AgroSciences Canada
- Ducks Unlimited Canada
- Environmental Science and Technology Alliance Canada
- Finnfeds International Ltd.

**...to advance knowledge in
agriculture, food and nutrition,
renewable resources, forestry
and agriculture-biotechnology**

.....

- Food and Agriculture Organization (United Nations)
- Foothills Forest
- Genex Swine Group
- Gist-brocades B.C.
- Great Northern Silage
- Health Canada
- Hoechst Marion Roussel
- Hoffmann-La Roche
- Hubbard ISA
- Hybrid Turkeys Inc.
- Komex International Ltd.
- Imperial Oil Ltd.
- Imperial Oil Chemicals Division
- Lakeland Peat Moss Ltd.
- Manitoba Egg Producers
- Manitoba Model Forest
- Manning Diversified Forest Products
- Millar Western Industries
- Molly Towell Perinatal Research Foundation
- MTI Meta Tech Inc.
- Natural Resources Canada
- Natural Sciences and Engineering Research Council of Canada
- North American Loon Fund
- Northern Alberta Institute of Technology
- NOVA Gas Transmission Ltd.
- Ontario Pork Producers' Marketing Board
- Pacific Biotechnologies Inc.
- Palm Oil Research and Development Board
- PanCanadian Petroleum Ltd.
- Parks Canada
- PAPRICAN
- Parmalat Canada
- Peace County Bison Association
- Pine Falls Paper Company

Research works

- Pioneer Hi-Bred International
- Potato Growers of Alberta
- Poultry Industry Council
- Premier Horticulture Ltd.
- Province of British Columbia
- Province of Manitoba
- Public Works and Government Services Canada
- Ranger Slave Lake Pulp Corp.
- Saskatchewan Elk Breeders Association
- Shaver Poultry Breeding Farms
- Social Sciences and Humanities Research Council of Canada
- Society of Wetland Scientists
- Sun Gro Horticulture Canada Ltd.
- Syncrude Canada
- TELUS Corporation
- Texaco Inc.
- Tolko Manitoba Inc.
- TransAlta Utilities Corporation
- Unique Oilfield Services Ltd.
- Université Laval
- University of Manitoba
- University of Minnesota
- University of Toronto
- University of Waterloo
- Weldwood of Canada
- Western Economic Diversification Canada
- Western Forest Products Ltd.
- Weyerhaeuser Canada
- Whooping Crane Conservation Association
- Wild Rose Agricultural Producers' Association
- World Wildlife Fund Canada
- Zeneca Seeds

Canadian and Alberta government departments and agencies help Research Work at the University of Alberta

.....

- Agriculture and Agrifoods Canada
- Alberta Agricultural Research Institute
- Alberta Agriculture, Food and Rural Development
- Alberta Cancer Board
- Alberta Community Development
- Alberta Economic Development and Trade
- Alberta Energy
- Alberta Environment
- Alberta Environment Fish and Wildlife Services
- Alberta Environmental Research Trust
- Alberta Family and Social Services
- Alberta Federation of Rural Electrification Association
- Alberta Forestry
- Alberta Foundation for the Arts
- Alberta Health and Wellness
- Alberta Heritage Foundation for Medical Research
- Alberta Hospital Edmonton
- Alberta Human Rights and Citizenship
- Alberta Infrastructure
- Alberta Innovation and Science
- Alberta International and Intergovernmental Relations
- Alberta Justice and Attorney General
- Alberta Learning (Advanced Education and Career Development)
- Alberta Municipal Affairs
- Alberta Oil Sands Technology and Research Authority
- Alberta Research Council
- Alberta Resource Development
- Alberta Science and Research Authority

Research works

- Alberta Sport, Recreation, Parks and Wildlife Foundation
- Alberta Treasury
- Aspen Health Services
- Atmospheric Environment Services Canada
- Atomic Energy Control Board
- BC Hydro
- British Columbia Ministry of Environment, Lands and Parks
- British Columbia Ministry of Forests
- Canada Council
- Canada Foundation for Innovation
- Canadian Bar Association Law for the Future Fund
- Canadian Copyright Licensing Agency
- Canadian Council of Archives
- Canadian Forces Personnel Support Agency
- Canadian Forest Service
- Canadian Heritage
- Canadian International Development Agency
- Canadian Police Research Centre
- Canadian Pork Council
- Canadian Space Agency
- Canadian Wheat Board
- Capital Care Group
- Capital Health Authority
- Caritas Health Group
- Children's and Women's Health Centre of BC
- City of Edmonton
- City of Kelowna
- City of St. Albert
- City of Spruce Grove
- County of Strathcona
- Cross Cancer Institute

Canadian and Alberta government departments and agencies help Research Work at the University of Alberta

.....

- Crossroads Regional Health Authority
- David Thompson Regional Health Authority
- Defence Research Establishment – Suffield
- Department of Justice (Canada)
- East Central Regional Health Authority
- Edmonton Catholic Schools
- Edmonton General Hospital (Grey Nuns)
- Emergency Preparedness Canada
- Environment Canada
- Geological Survey of Canada
- Government of the Northwest Territories
- Government of the Yukon
- Health Canada
- Human Resources Development Canada
- Indian and Northern Affairs Canada
- International Development Research Centre (Canada)
- Kingston, Frontenac, and Lennox and Addington Health Unit
- Lithoprobe
- Little Red River Indian Band
- MaMowe Capital Region Child and Family Services
- Manitoba Natural Resources
- Medical Research Council of Canada
- Mt. Sinai Hospital
- National Archives of Canada
- National Dental Assisting Examining Board
- National Research Council of Canada
- Natural Resources Canada

Research works

- Natural Sciences and Engineering Research Council of Canada
- Northern Lights Regional Health Authority
- Ottawa Regional Cancer Centre
- Parks Canada
- Prairie Farm Rehabilitation Administration
- Province of Alberta
- Province of British Columbia
- Province of Manitoba
- Province of Nova Scotia
- Province of Ontario
- Province of Québec
- Province of Saskatchewan
- Public Works and Government Services Canada
- Ribstone Child and Family Services Authority
- Royal Canadian Mounted Police
- St. Paul Health Unit
- Saskatchewan Energy and Mines
- Social Sciences and Humanities Research Council of Canada
- Statistics Canada
- Status of Women Canada
- Vancouver Hospital
- Western Economic Diversification Canada
- Workers' Compensation Board of Alberta

help Research Work at the University of Alberta

.....

- Alberta Advisory Committee for Educational Studies
- Alberta Association of Registered Nurses
- Alberta Association of Registered Occupational Therapists
- Alberta Barley Commission
- Alberta Cattle Commission
- Alberta Canola Producers' Commission
- Alberta Chicken Producers' Marketing Board
- Alberta Dairy Council
- Alberta Egg Producers' Board
- Alberta Energy and Utilities Board
- Alberta Federation of Labour
- Alberta Hatching Egg Marketing Board
- Alberta Law Foundation
- Alberta Lung Association
- Alberta Medical Association
- Alberta Milk Producers' Association Ltd.
- Alberta Museums Association
- Alberta Native Plant Council
- Alberta Occupational Health Nurses Association
- Alberta Paraplegic Association
- Alberta Pharmaceutical Association
- Alberta Poultry Industry Council
- Alberta Pulse Growers' Association
- Alberta Teachers' Association
- Alberta Turkey Producers' Marketing Board
- Alberta Ukrainian Commemorative Society
- Alberta Venison Council
- Alzheimer Society of Canada
- Alzheimer Society Edmonton
- Archives Society of Alberta
- Arthritis Society
- Association for the Export of Canadian Books
- Association of Professional Engineers, Geologists and Geophysicists of Alberta
- Association of Universities and Colleges of Canada
- Association of Women's Health, Obstetric and Neonatal Nurses
- Blair (SM) Family Foundation
- Calgary Foundation
- Canada-Alberta Beef Industry Development Fund
- Canada-Alberta Hog Industry Development Fund
- Canadian Academic Accounting Association
- Canadian Association of Gastroenterology
- Canadian Association of Japanese Automobile Dealers
- Canadian Association of Petroleum Producers

Research works

- Canadian Atherosclerosis Society
- Canadian Bar Foundation
- Canadian Blood Agency
- Canadian Breast Cancer Foundation
- Canadian Centre for Policy Alternatives
- Canadian Continence Foundation
- Canadian Cultural Society of the Deaf
- Canadian Cystic Fibrosis Association
- Canadian Dental Association
- Canadian Dental Hygienists' Association
- Canadian Dermatology Foundation
- Canadian Diabetes Association
- Canadian Digestive Disease Foundation
- Canadian Figure Skating Association
- Canadian Fitness and Lifestyle Research Institute
- Canadian Foundation for the Study of Infant Deaths
- Canadian Foundation for Ukrainian Studies
- Canadian Health Services Research Foundation
- Canadian Institute for Petroleum Industry Development
- Canadian Institute of Mining and Metallurgy
- Canadian Institute of Theoretical Astrophysics
- Canadian Liver Foundation
- Canadian Lung Association
- Canadian Masonry Research Institute
- Canadian National Institute for the Blind
- Canadian Pork Council
- Canadian Portland Cement Association
- Canadian Psychiatric Research Foundation
- Canadian Race Relations Foundation
- Canadian Red Cross
- Canadian Slavonic Papers Journal
- Canadian Union of Public Employees
- Canadian Urological Foundation
- Canadian Water Resources Foundation
- Cancer Care Ontario
- Canola Council of Canada
- Carthy Foundation
- CD Howe Institute
- Centre de recherche en calcul appliqué (CERCA)
- Centre for Agricultural Medicine

help Research Work at the University of Alberta

.....

- Chartered Accountants Educational Foundation
- Chemical Manufacturing Association
- Children's Health Foundation of Northern Alberta
- Chiropractors' Association of Saskatchewan
- Civic Service Union #52
- Clifford E. Lee Foundation
- College of Physicians and Surgeons of Alberta
- Council of Canadians
- Crohn's and Colitis Foundation of Canada
- Dairy Farmers of Canada
- Donner Canadian Foundation
- Ducks Unlimited Canada
- Edmonton Community Foundation
- Edmonton Community Lottery Board
- Edmonton Eskimo Football Club
- Edmonton Social Planning Council
- Electric Transmission Council
- Fog Foundation
- Forest Engineering Research Institute
- Friends of Elk Island Society
- Friends of Multiple Sclerosis Research Clinic
- Friends of the Environment Foundation
- Glaucoma Research Society of Canada
- Graduate Students' Association, University of Alberta
- Hamilton Foundation
- Heart and Stroke Foundations
- Heart and Stroke Foundation of Ontario
- Henri M.Toupin Foundation
- Huntington Society of Canada
- Independent Order of Odd Fellows Rebekah Visual Research
- Institute for Wetland and Waterfowl Research
- Institute of Cardiology of Montreal
- Institute of Health Economics
- International Alliance of Theatre and Stage Employees
- Kidney Foundation of Canada
- Law Foundation of BC
- Leukemia Research Fund of Canada
- McLaughlin (R. Samuel) Foundation
- Medical Council of Canada
- The Metis Nation of Saskatchewan Secretariat Inc.
- Minerva Foundation
- Molly Towell Perinatal Research Foundation
- MSI Foundation

Research works

- Multiple Sclerosis Society
- Muscular Dystrophy Association
- National Cancer Institute of Canada
- NeuroScience Canada Foundation
- Northern Alberta Urology Foundation
- Northwest Peat and Crop Development Association
- Ontario Egg Producers' Board
- Ontario Pork Producers' Marketing Board
- Osteoporosis Society of Canada
- Parkinson's Disease Foundation
- Parkinson's Society of Alberta
- Peter and Elizabeth Tower Foundation
- PMAC – Health Research Foundation
- Potato Growers of Alberta
- Provincial Health Ethics Network
- Roeher Institute
- RP Eye Research Foundation
- Royal Alexandra Foundation
- Royal Bank Charitable Foundation
- Royal College of Physicians and Surgeons
- Rural Education and Development Association
- Sandy Lake Restoration Society
- Saskatchewan Elk Breeders' Association
- Schlumberger Foundation
- Science Council of BC
- Spinal Cord Injury Treatment Centre
- Sport Medicine Council of Alberta
- Steel Structures Education Foundation
- Students' Union, University of Alberta
- United Nurses of Alberta
- Universiade '83 Foundation
- University of Alberta (1991) Foundation
- University of Alberta Hospitals Foundation
- Western Canada Canola/Rapeseed Association
- Western Grains Research Foundation
- Wildlife Habitat Canada
- Wild Rose Foundation
- Winspear Foundation
- World Wildlife Fund Canada

Economic diversification

University spin-off companies increasingly are a significant generator of jobs and contribute in an important way to Edmonton's growing reputation as a "Smart City."

Active University of Alberta Spin-off Companies (31 March 2000)

Company	Year Founded	Employees
Acugene Inc./Acugen Inc.	1997	1
AgriGenomics Inc.	1999	3
Alberta Asthma Centre	1997	20
Altamet	1999	2
AltaRex Corp.	1995	47
AVRA Software Lab Inc.	1998	3
Biomech Designs Ltd.	1982	2
Biomira Inc.	1985	180
Biomotion Inc.	1994	2
Biotoools Inc.	1996	26
Boreal Laser Inc.	1988	5
CanBiocin Inc.	1997	3
C-FER Technologies Inc.	1983	45
CV Technologies Ltd.	1992	40
Cytovax Biotechnologies Inc.	1986	14
Dynastream	1999	3
Indico Technologies Corp.	1995	5
Isotechnika Inc.	1993	20
L&R Wang Enterprises Ltd.	1990	2

Research Works for Economic Diversification

Active University of Alberta Spin-off companies: 37
 Direct jobs in Spin-off companies (approx.): 960
 Indirect jobs created by Spin-off companies: 1,825

Metabolic Modulators Research	1997	7
Micralyne Inc. (formerly Alberta Microelectronic Centre)	1982	80
MTI Meta Tech Inc.	1997	1
NAEAJA Pharmaceuticals (formerly SynPhar Laboratories)	2000	N/A
Orthopaedic Innovations Ltd.	1996	6
Ovo-Biotechnica Inc.	1991	1
PISA Inc.	1995	2
Prairie Biological Research	1984	8
Raylo Chemicals Inc.	1963	175
Regional Data Management Inc.	1996	2
ROAM-IT (Canada) Holdings Inc.	1998	5
StatCo International Inc.	1994	4
SYNSORB Biotech Inc.	1994	42
Telephotogenics Inc.	1996	2
TRLabs	1986	178
The Laser Institute	1984	15
WavePOINT Systems Inc.	1997	5
Wildlife Genetics International	1998	1

Research works

Pharmaceutical

Many of the world's major health care-related companies and institutions sponsor research at the University of Alberta for the development of new drugs, treatments, applications and clinical trials. Among our research partners are...

- Abbott Laboratories Ltd.
- ABT Associates
- Akzo Nobel
- Allelix Inc.
- Alliance Pharmaceutical Inc.
- AltaRex Inc.
- AltiMed Pharmaceutical Co.
- Amgen Inc.
- Angiotech Pharmaceuticals Inc.
- Anormed Inc.
- Apotex Inc.
- AstraZeneca
- Aventis Pharma Inc.
- Axcan Pharma Inc.
- Battelle
- Baxter Healthcare Corporation
- Bayer Inc.
- Beiersdorf AG
- BioChem Pharma Inc.
- Biocompatibles Ltd.
- Biomira Inc.
- Biotronik GMBH
- BrainLAB GMBH
- Briana Bio-Tech Inc.
- Bristol-Myers Squibb Canada Inc.
- Bristol-Myers Squibb Pharmaceutical Group, US
- BYK Canada Inc.
- Cell Therapeutics Inc.
- Centorcor Inc.
- Chem Security (Alberta) Ltd.
- Clintee Nutrition Co.
- Connaught Laboratories Ltd.
- COR Therapeutics
- CroMedica Inc.
- CV Technologies Inc.

for better health



- Cytovax Biotechnologies Inc.
- Daiichi Pharmaceutical Co. Ltd.
- Dow Chemical Canada Inc.
- DuPont Merck Pharmaceutical
- Eli Lilly Canada Inc.
- Eli Lilly & Co. (US)
- Epimmune Inc.
- Esperion Therapeutics Inc.
- Finnsugar Bioproducts Inc.
- Fournier Pharma Inc.
- FTNI Inc.
- Fujisawa Canada Inc.
- Genomic Solutions (England) Inc.
- Glaxo Canada Inc.
- Glaxo Wellcome Inc.
- Glycobiotics Inc.
- Guidant Inc.
- Hoechst Marion Roussel
- Hoechst Marion Roussel Canada Research Inc.
- Hoffman-La Roche Ltd. (Canada)
- IBAH Inc.
- Inex Pharmaceuticals Corp.
- Inotek Corporation
- Interneuron Pharmaceuticals Inc.
- Ischemia Research and Education Foundation
- ISIS Pharmaceuticals
- Isotechnika Inc.
- Janssen-Ortho Inc.
- Johnson & Johnson Inc.
- Knoll Pharmaceuticals
- Le Groupe Servier
- LeukoSite, Inc.
- Liposome Technologies Inc.
- Lucas Meyer GMBH

Research works

Pharmaceutical

- MDS Inc.
- MDS Sciex
- Medtronic (US)
- Medtronic of Canada
- Merck Frosst Canada Inc.
- Merck & Co. (US)
- Merck/Groupe Lipha (France)
- Merck KGAA
- Metabolex Inc.
- Metabolic Modulators Research Ltd.
- Nalco Chemical Company
- Nestle Clinical Nutrition
- New England Biolabs
- Novartis Pharmaceuticals Canada Inc.
- Novo Nordisk Canada Inc.
- Nutri-Quest Inc.
- Ocean Nutrition Canada Inc.
- Olympic Medical Corp.
- Ortho-McNeil Inc.
- Osprey Pharmaceuticals
- Oxagen Ltd.
- Pacific Biotechnologies Inc.
- Parke-Davis
- Pasteur-Merieux Connaught
- Pfizer Canada Inc.
- Pharmacia & Upjohn Inc. (Pharmacia Corp.)
- Procter & Gamble Pharmaceuticals Canada
- Probiodrug Gesellschaft für Arzneimittelforschung GMBH
- QLT Phototherapeutics Ltd.
- Research Corporation
- Rhône-Poulenc (France)
- Rhône-Poulenc Rorer Canada Inc.
- Roche Laboratories

for better health

.....

- Roche Organ Transplantation Research Foundation
- Ross Laboratories
- St. Jude Medical Inc.
- Salpep Biotechnology Inc.
- Sanofi Canada Inc.
- Schering Canada Inc.
- Schering Corp. (US)
- Searle Canada Inc.
- SmithKline Beecham Pharma Inc.
- SmithKline Beecham Pharma Inc. (U.K.)
- Sofamor Danek Group Inc.
- Solray Pharma
- Solvay Kingswood Inc.
- Somagen Diagnostics Ltd.
- Stryker Canada Inc.
- SYNSORB Biotech Inc.
- TEVA Pharmaceutical Industries Ltd.
- Trophix Pharma Inc.
- ViroPharma Inc.
- Warner Lambert Canada Inc.
- Wyeth-Ayerst Research
- Zagros Pharma Inc.
- Zeneca Pharma Inc.

Research works

Energy

Energy research in all its aspects is an important part of Alberta's economic diversification. Among the University's industry research funding partners are...

- Alberta Energy and Utilities Board
- Alberta Energy Co.
- Alberta Power
- Alliance Pipeline
- Alternative Fuel Systems Inc.
- Amoco Canadian Petroleum Co. Ltd.
- Arco Exploration and Production Technology Inc.
- ATCO Gas
- BC Hydro
- Berkley Petroleum Corp.
- Canadian Association of Petroleum Producers
- Canadian Petroleum Products Institute
- C-FER Technologies
- Chevron Canada Resources
- Chevron Petroleum Technology Corp.
- Chieftan International Inc.
- Colt Engineering
- Crestar Energy Inc.
- Elf Aquitaine
- Enbridge Pipelines
- EPCOR
- ESBI Alberta Ltd.
- Foothills Pipelines Ltd.
- Fording Coal
- Gulf Canada Resources Ltd.
- Hibernia Management & Development
- Husky Oil
- Imperial Oil Chemicals Division
- Imperial Oil Ltd.
- Imperial Oil Resources
- Koch Exploration Ltd.
- Luscar Ltd.
- Manalta Coal Ltd.

University of Alberta Commercialization Achievements

Since 1994:

- More than \$150 million in industry-sponsored research
- 471 invention disclosures
- 1,118 Licenses, Options, and Agreements signed
- 105 Canadian, United States and international patents issued
- Almost \$16 million in royalty and licensing revenues
- More than \$11 million in indirect research cost recoveries
- 32 spin-off companies formed

In 1999-2000:

- Industry-sponsored research total: \$34.1 million
- 64 Reports of Invention
- 203 Licenses, Options and Agreements
- 69 patents filed (all countries)
- 15 patents issued (all countries)
- 864 research agreements executed
- Licensing income received: \$1,621,619
- 3-year rolling average annual licensing income: \$3,659,000
- Contract/Grant indirect cost recoveries: \$3,659,000
- 3 spin-off companies formed

- Mobil Oil Canada Ltd.
- NOVA Gas Transmission Ltd.
- Pan Canadian Petroleum Ltd.
- Petro Canada Oil and Gas
- Powertech Labs
- Schlumberger Canada
- Schlumberger Foundation Inc.
- Shell Canada
- Shell Oil Products (US)
- Smoky River Coal Ltd.
- Syncrude Canada
- Talisman Energy
- Texaco Inc.
- TransAlta Utilities Corp.
- Ulster Petroleums Ltd.
- Union Oil Co. of California
- Unique Oilfield Technology Services Ltd.

International investment

Businesses outside of Canada invest in research at the University of Alberta

- Abt Associates Inc.
- AeroGen Inc.
- A/F Protein
- Affymax Research Institute
- Akzo Nobel
- Alliance Pharmaceutical Corp.
- American Society of Heating, Refrigeration and Air-Conditioning Engineers
- Amgen Inc.
- AMT International Inc.
- Aquanova International Ltd.
- Arco Exploration and Production Technology Inc.
- AstraZeneca International
- Battelle
- Baxter Health Care Corp.
- Bayer Inc.
- Beiersdorf AG
- Billiton Ecuador BV
- Biotronik GMBH
- Bristol-Myers Squibb Pharmaceutical Group (USA)
- Cabletron Systems
- Cartwright, Olsen and Associates
- Cell Therapeutics Inc.
- Centorcor Inc.
- Clintee Nutrition Co.
- Cobb-Vantress Inc.
- Cochlear Corp.
- Control Dynamics Inc.
- Cor Therapeutics Inc.
- Covance Periapproval Services
- Daiichi Pharmaceutical Co. Ltd.
- Decon Studrail Inc.
- DMC2
- Dow Chemical Co.
- DuPont Merck Pharmaceutical

- 
- DYWIDAG – Systems International
 - Eastman Kodak
 - Electronic Arts Ltd.
 - Elf EP
 - Eli Lilly & Co.
 - Epimmune
 - Esperion Therapeutics Inc.
 - Finnfeeds International
 - Finnsugar Bioproducts Inc.
 - Firmenich SA
 - Genomic Solutions
 - Gist-brocades
 - Glaxo Wellcome Inc.
 - Glycobiotics Inc.
 - GTC Technology Corporation
 - Guidant Inc.
 - Hubbard ISA
 - ICOS Corporation
 - Inotek Corp.
 - Interneuron Pharmaceuticals Inc.
 - Janssen-Ortho Inc.
 - Japan Science and Technology Corp.
 - Joslin Diabetes Center
 - Knoll Pharmaceuticals
 - Laidlaw Waste Systems Inc.
 - Landmark Graphic Corp.
 - LeukoSite Inc.
 - Lucas Meyer GMBH
 - Medtronic Inc.
 - Merck KGAA
 - Merck & Co. Inc.
 - Metabolex Inc.
 - Mobil Exploration and Product Research Corp.
 - Motorola Inc.
 - Nalco Chemical Co.
 - National Storage Industry Consortium
 - Neose Technologies Inc.
 - Nestle Clinical Nutrition
 - Northern Telecom (USA)
 - Nutri-Quest Inc.

International investment

- Olympic Medical Corp.
- Oxagen Ltd.
- Palm Oil Research and Development Board
- Parke-Davis
- Pharmacia & Upjohn Inc.
- Pioneer Hi-Bred International Inc.
- Placer (PNG) Pty Ltd.
- Plioni Enterprises Ltd.
- Powertech Labs Inc.
- Probiodrug Gesellschaft für Arzneimittelforschung GMBH
- Quantum Corporation
- Research Corporation
- Rhône-Poulenc
- Roche Laboratories
- Ross Laboratories
- RWE-DEA (Germany)
- Sage Publications Inc.
- Shell Oil Products
- Schering Corp.
- Seagate Technology Inc.
- Servier I.R.I.S.
- Siemens Corp. Research Inc.
- SmithKline Beecham Pharma (UK) Inc.
- Solvay Pharma Clinical Inc.
- Teledyne Industries
- Texaco Inc.
- TEVA Pharmaceutical Industries Ltd. (Israel)
- Trophix Pharma Inc.
- Unimin Corp.
- Union Oil Co. of California
- UOP Engineering Products
- Veritas DGC Ltd.
- ViroPharma Inc.
- Winrock International
- Wyeth-Ayerst Research

Collaboration

Collaborative activities with other post-secondary institutions world-wide helps Research Work at the University of Alberta

- Carleton University
- Columbia University
- Dalhousie University
- Drexel University
- Duke University
- Grant MacEwan Community College
- Johns Hopkins University
- Lakehead University
- Laurentian University
- Lethbridge Community College
- McGill University
- McMaster University
- Meharry Medical College
- Memorial University of Newfoundland
- Northern Alberta Institute of Technology
- Northwestern University
- Ohio University
- Okanagan University College
- Ontario Institute for Studies in Education
- Oregon Health Sciences University
- Queen's University
- Red Deer College
- San Francisco State University
- Simon Fraser University
- Temple University
- Universidade de Coimbra (Portugal)
- Université de Montréal
- Université de Québec
- Université de Sherbrooke
- Université Laval
- University of Alabama
- University of Arizona
- University of Bergen (Norway)
- University of British Columbia
- University of Calgary
- University of California at Los Angeles
- University of California at San Diego
- University of Idaho
- University of Lethbridge
- University of Manitoba
- University of Massachusetts at Boston
- University of Michigan
- University of Minnesota
- University of New Brunswick
- University of Ottawa
- University of Rochester
- University of Saskatchewan
- University of South Carolina
- University of Toronto
- University of Vermont
- University of Victoria
- University of Washington
- University of Waterloo
- University of Western Ontario
- University of Windsor
- University of Zimbabwe
- Villanova University
- Wake Forest University
- York University

Current research


The University of Alberta has long performed research in disciplines (both traditional and emerging) with the potential for economic impact on Alberta and the world. Examples of current research include:

Agriculture, Food and Nutrition

- Effects of livestock, wildlife and forest harvesting technology on aspen regeneration and forage supply.
- Effects of ginseng on stress response and immune response.
- Nutritional education for social change: women and body image.
- Welfare-to-work: implications for preschool children's health and development.
- Development of a soil quality assessment tool.
- Export competitiveness of Canada's agri-food industries relative to their main competitors.

Humanities, Social Sciences, Society

- Investigation of health risk factors in ethno-culturally diverse youth.
- The impact of NAFTA on forest-dependent communities in Canada, the United States and Mexico.
- The Daghida project: language research and revitalization in a First Nations community (Cold Lake, Alberta).
- Insect succession on carrion in Edmonton—development of a database for use in homicide investigations in Alberta in early summer.
- A sense of place: the oral history mapping project in Alexis First Nation Territory.
- New product development in the Canadian and Australian feature-film and television production industries comparative study.

- 
- The internet in teaching and learning in Canadian schools: a study in educational change.
 - Perceptions of poverty and health and support for public policy.
 - Older Canadians' beliefs about physical activity.

Forestry



- Use of microbial inoculants for enhanced establishment of poplars in Alberta.
- Effects of forest fires and forest management practices on genetic diversity in white spruce in northern Alberta: benchmarks for genetic biodiversity criteria and indicators for sustainable forest management.
- Social consequences of local ownership of Canadian forest product mills.
- Population responses of Alberta conifer tree species to potential climate change and implications for reforestation.
- Growth rate of natural and planted white spruce.

Environment




- Wolves and caribou in the Alberta foothills: predator responses to industrial development.
- Burrowing owl and peregrine falcon migration and diet research.
- Conservation of burrowing owls in western North America.
- Native plant species establishment for resource conservation.
- Tolerance levels of wolves to human activities in Jasper National Park.
- Post-fire colonization and use of burned and salvaged areas by boreal birds in a mixed-wood forest.

Current research

- The assessment and restoration of biological communities and biogeochemical processes in mountain lakes affected by past human activity.
- Population biology, conservation and management of arthropods.
- Movement behaviour of animals in fragmented habitats.
- Genetic diversity and genetic forensics.
- Impacts of wildfire on permafrost in sub-arctic forests.

Health Sciences and Biotechnology

- Anticancer agents from unique natural product sources.
- A comprehensive community-based intervention for asthma.
- Transplantation of human and neonatal pig islets without chronic immunosuppression.
- Creation of the Institute for Biomolecular Design.
- Development of in-vivo magnetic resonance spectroscopic techniques for diagnostic medicine.
- The epidemiology of injury among Alberta children from infancy to age 10.
- Creation of the Western Canadian Centre for the Magnetic Resonance Evaluation of Human Function and Disease.
- The role of nitric oxide in the regulation of arterial blood pressure.
- The application of molecular biology to develop new tools for genomic research.
- Cost-effectiveness of total joint replacement in the elderly.
- Risk factors related to low birth weight and pre-term birth.
- Novel therapeutic strategies for prostate cancer therapy.
- Effects of exercise on quality of life in cancer patients.

- 
- Development of pre-employment physical fitness standards for Canadian Forces and Department of National Defence firefighters.
 - Neurophysiology of spinal cord injury and interventions that promote recovery.
 - Survival of mammals in the cold: constraints and adaptations.
 - Application of natural products to biological problems.
 - Innovative instrumentation for advanced proteome research.

Applied Science, Energy and Technology



- Drinking water disinfection and control of water-borne parasites.
- An outdoor mobile robot system for surveying and military field support applications.
- High-powered laser technology and laser materials science and processing.
- Building high-performance artificial intelligence applications.
- Rational design of mixing equipment for water treatment.
- Artificial intelligence in commercial computer games.
- Establishment of research chair programs in biofilms, biomaterials and biomechanics.
- Marine icing sensor research.
- Development of technologies that will improve the efficiency of flares to consume waste gases that result from the production of oil and gas.
- Applications of machine learning in robotics, rehabilitation, and high-energy physics.
- Software architecture for virtual reality.



Research Works 2000

was created by the
Office of the Vice-President (Research),
designed by Creative Services,
and has been produced in part through
a generous contribution from:



F I E L D

A T K I N S O N

P E R R A T O N

BARRISTERS & SOLICITORS
PATENT AGENTS

2000, 10235 - 101 Street
Edmonton, Alberta
Phone: (780) 423-3003

and

1900, 350 - 7th Ave. SW
Calgary Alberta
Phone (403) 260-8500

www.fieldlaw.com

© University of Alberta, 2000

For additional information:

Fax: (780) 492-3189

E-mail: david.norwood@ualberta.ca

<http://www.ualberta.ca/vpresearch/>