

Academic Insight



EXPLORING CANADIAN ACADEMIC ECOSYSTEM

- * Studentships
- * Fellowships
- * Academic Jobs
- * Patents & Discoveries
- * University News
- * Academic Events



M. IRFAN-MAQSOOD, PH.D.
EDITOR-IN-CHIEF

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Academic Insight & A Brief Introduction of Canadian Academic Ecosystem



Dr. M. Irfan-Maqsood, Ph.D.
Editor-in-Chief

An academic ecosystem of a society is responsible for the scientific explorations, knowledge-production and doing research for the innovation based technological development. The vitality of an academic ecosystem for a society is undeniable because it keeps the equilibrium of survival and prosperity. The productivity of an academic ecosystem explains the dedication and wisdom of the professional experts which is composed of policy makers, advisory bodies, societies or associations, national excellence centers, independent local research centers, universities/tertiary institutes and the community of students or early career researchers.

Canada is well-known for its highly educated and technically expert society, the main reason that hundreds of thousands of students every year applied to join the Canadian academic ecosystem. Although the Canadian inventions and discoveries have had special place in the world but most of the components of this ecosystem remains unknown to the world. Academic Insight is aimed to explore and republish the less known but shined components.

Canadian Academic Ecosystem is composed of following six major players shaping the Canadian excellence;

1. Innovation, Science & Economic Development (ISED)
2. University of Toronto
3. McGill University
4. University of British Columbia
5. Universities Canada
6. Networks of Centres of Excellence (NCE)

Innovation, Science and Economic Development (ISED) Canada is an inter-ministerial governmental body led by the minister of innovation, science and industry assisting the Canadian academic ecosystem to develop a shape of being the finest in the world. All national research councils, foundations and technology promotion committees are associated with the ISED .

University of Toronto established by the University of Toronto Act 1971, is the top name in the Canadian academic ecosystem which has produced twelve Nobel laureates, six Turing Award winners, 94 Rhodes Scholars, and one Fields Medalist. The university was the birthplace of insulin and stem cell research, the first artificial cardiac pacemaker and the site of the first successful lung transplant and nerve transplant. The university was also home to the first electron microscope, the development of deep learning, neural network, multi-touch technology, the identification of the first black hole Cygnus X-1, and the development of the theory of NP-completeness. UoT alongwith McGill University are the only Canadian universities being members of the Association of American Universities outside the US and in addition to the UBC are the only Canadian universities ranked among the top50 in the world.

McGill University being the second top university of Canada has produced 12 Nobel laureates and 147 Rhodes Scholars in Science and Research. McGill University has global reputation in arts and sports as well having 8 Academy Award winners, 10 Grammy Award winners, at least 13 Emmy Award winners, four Pulitzer Prize winners, and 121 Olympians with over 35 Olympic medals in its alumni list. The inventors of the game of basketball, modern organized ice hockey, and the pioneers of Gridiron football, as well as the founders of several major universities and colleges are also among the graduates of this university.

University of British Columbia is the leading university of western Canada, third ranked in Canada and 45th top ranked university of the world. UBC has produced 8 Nobel laureates along with 74 Rhodes scholars and is the house of the world's largest particle accelerator (cyclotron). UBC library being one of the world largest library having over 10 million volumes, is one of the unique feature of UBC. Canada has 223 public and private universities supported with 213 public colleges and institutes.

Universities Canada (French: Universités Canada) is a non-profit national organization that coordinates university policies, guidance, and direction to represents Canada's colleges /universities. Universities Canada works in an advocacy role with government to promote higher education and enhance the contributions of Canadian universities for the development of the country.

Networks of Centres of Excellence, Canada is a non-profit program connecting the best minds of all disciplines and sectors to solve the Canadian issues, harness the creativity and inventiveness of Canadian health, natural, and social scientists and engineers. Supported by the hundreds of scientific research centers and institutes equipped with more than 200 world level laboratories, Canadian academic ecosystem is unique in the world for a nation of under 40 million people. In the current issue of Academic Insight, we are aimed to present the glorious past of Canadian academic ecosystem and will introduce the rising stars of Canadian academia in our upcoming issues.





**PHIL DE LUNA –
THE YOUNGEST
CARBONTECH
CANADIAN
INNOVATOR &
ACADEMIC INSIGHT
STAR OF CANADA
FOR 2023**

Dr. Phil De Luna - A Carbontech innovator and Climate Mentor, who was named in the 2019 Forbes Top 30 Under 30 – Energy list, and also was the finalist (1 of 10 worldwide) in the \$20M Carbon XPRIZE Climate change and net-zero goals signal the need for infrastructures of innovative and sustainable technologies and finding novel ideas and globalizing them.

Dr. Phil De Luna is the entrepreneur of cleantech from the Canadian startup and academic ecosystem. He believes stressing out about climate change as the biggest problem of the entire generation, has driven him trying to solve really big problems by providing his thoughts on trending technologies in cleantech.

Phil is a Filipino-Canadian who moved to Canada with his family in 1996 at the age of 5 and grew up in Windsor, Ontario. He holds a Bachelor of Science (BSc) from Windsor University and a Master of Science (MSc) from the University of Ottawa. He studied his doctorate (PhD) in materials science at the University of Toronto. His doctoral research was considering the identification of new electrocatalytic materials for converting carbon dioxide into renewable fuels and feedstocks, which has received the Graduate Governor General's medal. He was trying to commercialize the technology out of his Ph.D. and established a startup by working on electrically converting CO₂ to renewable fuel and chemicals.

Phil is the youngest-ever director in the Materials for Clean Fuels Challenge program at NRC's Energy, Mining and Environment Research Centre. De Luna's research career has been focused on advancing research and development in carbon dioxide capture and conversion for the renewable electro-synthesis of fuels, hydrogen production, artificial photosynthesis, and clean energy materials. He uses artificial intelligence and machine learning as well to accelerate materials discovery. He is a world-renowned scientist who has published over 40 papers in high-impact journals such as Nature and Science and has been on the Highly Cited Researchers list of the Web of Science too.

Phill De Luna is leading more than 40 projects across 4 countries: Canada, Germany, the UK and the U.S to develop clean-energy technologies. He organizes teams and works with executive leaders in corporations to help decarbonize Canada and achieve net-zero greenhouse gas commitments. Also, he is leading a multi-disciplinary 7-year, \$57 million research project for developing made-in-Canada novel materials in order to produce clean and sustainable energy.

Phil collaborates with the public, private and academic sectors by giving talks and speeches, participating in panel discussions and interviews on climate change, clean technology, science, diversity, and innovation.



Hannaneh Parvaresh
Researcher & Author

He hopes that his activities help to solve Canada's biggest challenges of reducing the global warming contributions to make earth a better place to live.

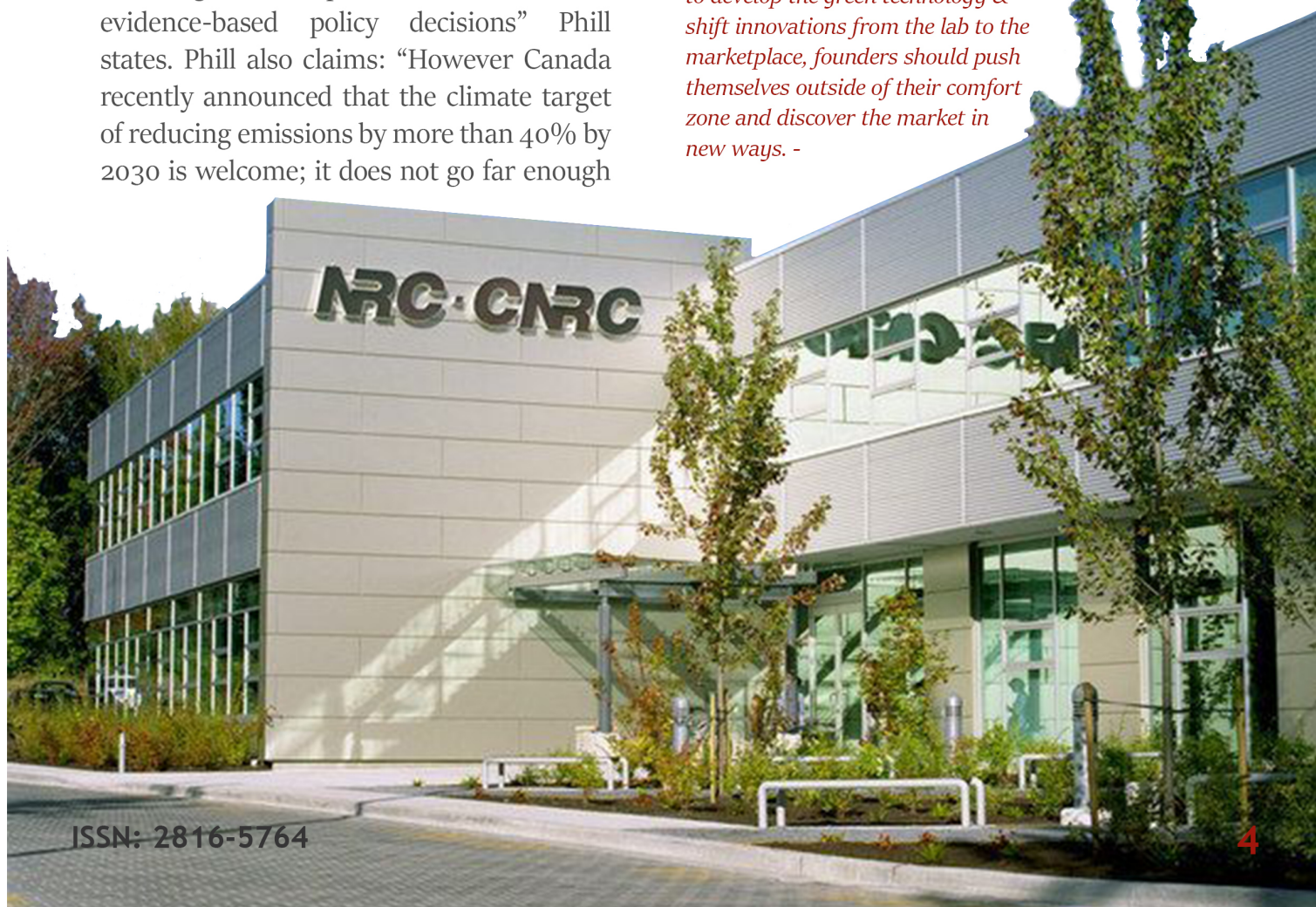
Phill De Luna thinks we need political leaders with the expertise to make policy decisions based on scientific evidence. He uses covid-19 to give an illustration when making science-based decisions by open data and science was key to developing vaccines in record time and in all the countries worldwide which had a collaboration and swift acting this led to much better results. Instead, the countries that devalued and denied science, suffered the greatest harm from the pandemic with the highest infection and death rates.

Climate change could be a more threatening crisis that brings higher temperatures, more unpredictable weather, and natural disasters like floods and forest fires. "Whether it's a global pandemic or global warming, we need political leaders to make evidence-based policy decisions" Phill states. Phill also claims: "However Canada recently announced that the climate target of reducing emissions by more than 40% by 2030 is welcome; it does not go far enough

and Canada still needs to reduce emissions 60% by 2030 to reach our stated net-zero goals."

While Global clean technology activities are expected to be worth more than \$2.5 trillion by 2022; in Phill's opinion, Canada should act now for investing in such upcoming transition as EU and US are doing. Phill thinks a great challenge for these startups is on the funding side. Since the major of cleantech is hard tech; lots of expenditures are needed for building the first prototype. Manufacturing and piloting also should be scaled that need even more money. He believes despite the fact that the sales cycle may be so long and require lots of relationship building for de-risking, with Canada being a relatively risk-averse society, individuals only need to find a way to make the demand side more robust and resilient to don't let the competitors in other markets be able to outpace them.

- His advice for Canadian cleantech founders is that moreover of developing a solution for a certain issue, they also should have an understanding of the market or how the solution could be applied. In order to develop the green technology & shift innovations from the lab to the marketplace, founders should push themselves outside of their comfort zone and discover the market in new ways. -

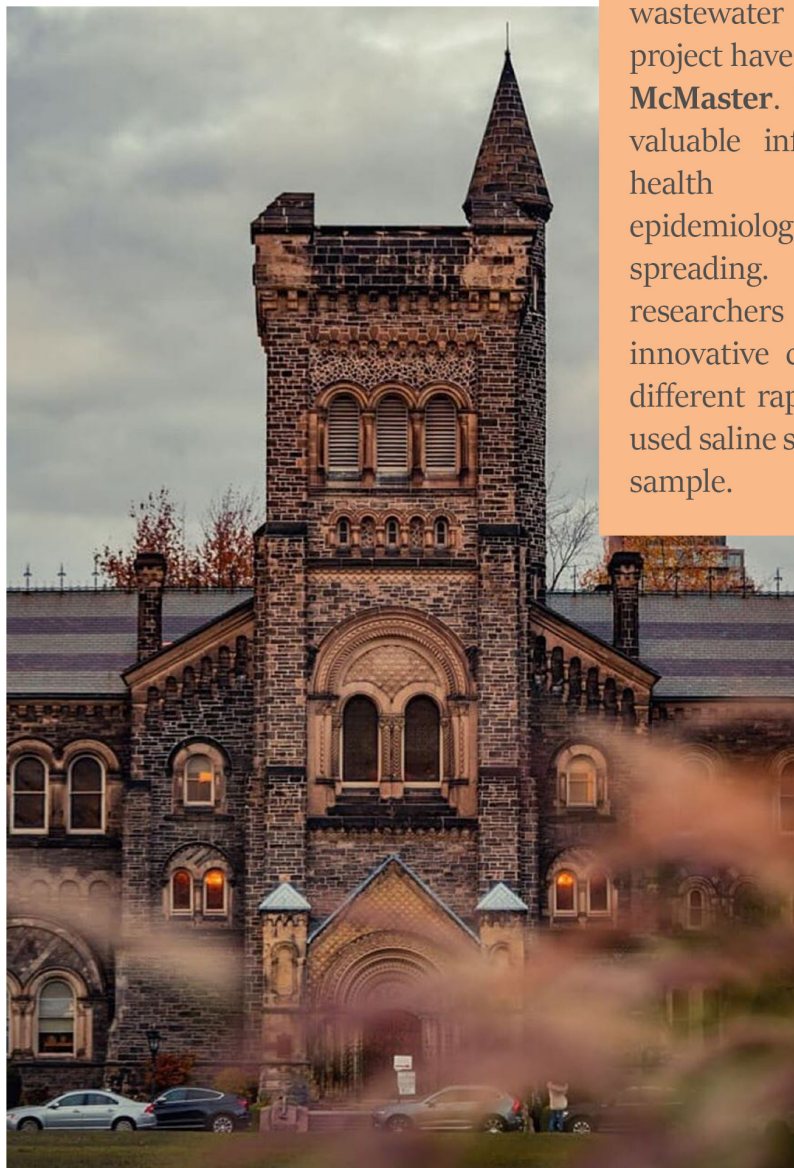


COVID-19 PANDEMIC & THE ROLE PLAYED BY THE CANADIAN ACADEMIC ECOSYSTEM

With the emergence of COVID-19 pandemic, academic ecosystems of many countries played vital roles to stop the spread. In some countries, the academic ecosystem played role in diagnosis management, in some it focused on treatment research whereas in some countries, it focused on the education.

The **Canadian Academic Ecosystem** played its role in all directions not just only for Covid-19 but also equipped the nation with all required skills to face another pandemic near future. Canada scientists have been the frontline soldiers in the COVID-19 war since the onset of pandemic via prioritizing the safety of academic community while maintaining the education quality and then mobilizing their research human resources to find the scientific solutions on how to stop the spread and decrease mortality rate?

Accurate and on-time diagnosis of virus is a critical step to control any viral pandemic. RT-qPCR tests and rapid antigen tests are the common types of COVID-19 diagnosis tests worldwide. The COVID-19 RT-qPCR detection kits have been introduced by most reputable international companies during pandemic. Fortunately, most of these companies have headquarter or active branch in Canada. But as demand increased for these kits globally, enough supply of detection kits for Canadian population was a concern for Canadian academic ecosystem. So, **Dr. Martin Schmeing** and **Dr. Don van Meyel** from McGill University collaborated with **Dr. Luke** from National Research Council of Canada (NRC) to fulfil the made in Canada testing kits demand and producing necessary component for kits at large scale. Rapid antigen tests are a good option for verifying the existence of virus in body specially for those who have COVID-19 symptoms. **Dr. Yves Durocher**, a NRC research officer released a standardized COVID-19 spike portion antigen that could be used as a reference in these antigen tests and vaccine development



Canadian scientists under the leadership of **Dr. Shaf Keshavjee** from University Health Network (UHN) also worked on the development of a new SARS-CoV-2 detection method known as RALI-Dx (Rapid Acute Lung Injury Diagnostic test). Several other innovative detections system were developed by Canadian corporations such as **Deep Biologics Inc, Fourien Inc, Metabolic Insights Inc, Nicoya Lifesciences Inc** with NRC financial support.

Tracking COVID-19 in campus wastewater is an interesting project have done by researcher of **McMaster**. This project provides valuable information for public health experts and epidemiologists to control virus spreading. supported R&D researchers from Canadian innovative companies to develop different rapid detection methods used saline sample instead of nasal sample.

www.CanCovid.ca

is a network of active researchers, academics, patient partners, decision makers, and industry partners dedicated to an evidence-informed response to the COVID-19 pandemic.



Dr. Monireh Bahrami
Molecular Biologist & Editor

Approving Pfizer-BioNtech and Moderna vaccines by FDA was a breaking news during COVID-19 pandemic. Today, almost every person has had heard about **mRNA technologies** developed by the American companies but the untold story is, mRNA vaccine could not be effective without the research work done by **Prof. Pieter Cullis** at the University of British Columbia. In spite of advance purchase from international vaccine producers, more than 10 types of Covid-19 vaccines were developed by the Canadian scientists which were listed and approved by WHO for emergency use.

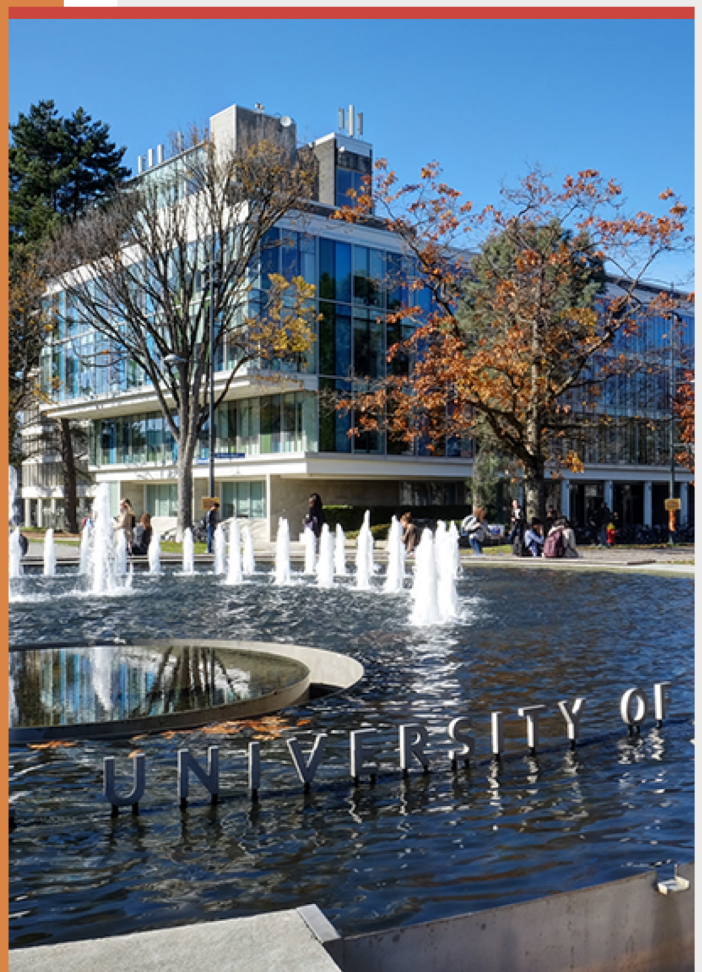
Along with all the research and clinical dedications, Universities developed a mission of educating the people and providing them reliable information because false information could create harmful effects. For this purpose, almost every university created a specified **web page for COVID-19** education and regularly uploaded the latest guidelines.

Canadian scientists have also published more than 200 research papers on specific topics such as dietary recommendations and boosting the immunity system.

Several genomic analyses were also performed by Canadian scientists like **Dr. Natalie Prystajecky** at the University of British Columbia focusing on the change in SARS-CoV-2 genome when virus transmitted from one patient to another person to understand the action of virus and develop enhanced guidelines to protect the valuable life from lost.

When academic ecosystem of whole world decided to work together against COVID-19 outbreak, they created an example that knowledge is the key tool that can stop any kind of illness or future pandemic.

The resources, platforms and experiences introduced by scientists during COVID-19 outbreak resulted in protection from monkeypox for becoming next pandemic and Canadian academic ecosystem performed well in this case. For example, Communicable Disease Prevention Framework (CDPF) developed by the University of British Columbia have been ready for immediate action against monkeypox and even testing students. Also, a monkeypox information page was created by the University of Toronto immediately after reporting some cases of diseases in Canada and the same protocols were also followed by all other major universities.



INSULIN - A CANADIAN DISCOVERY IN 1922 BY FREDERICK BANTING, CHARLES BEST, AND JAMES COLLIP

In the past, there were many diseases that were human nightmares and no definitive treatment was available for them at that time. Diabetes was one of those diseases having one of the highest mortality rate every year. Before the discovery of insulin, there was a very strict diet plan to control the diabetes and that worked only for very few patients putting life in dangers. Diabetes is a chronic, metabolic disease characterized by high levels of blood glucose (or blood sugar), which over time can lead to serious damage to the heart, eyes, blood vessels, kidneys and nerves. When a person's pancreas does not make enough insulin or body does not use insulin well, the glucose stays in the blood, and keeps blood sugar levels high.

There are two types of diabetes;

1. Insulin dependent diabetes mellitus (IDDM) or type 1 diabetes (T1D), usually starts in childhood or adolescence but can occur in adults also. In this disease, diabetes involves the pancreas gland, as a result of which the person's pancreas does not make insulin. These people can control their blood sugar level by injecting insulin. The cause of this disease can be hereditary and genetic backgrounds where as

2. Non-insulin dependent diabetes mellitus (NIDDM) or type 2 diabetes (T2D) which is an inherited metabolic disorder characterized by hyperglycemia with resistance to ketosis, and usually occurs in people over 30 to 40 years old. Obese people and people who have a poor diet, as well as alcoholics are more likely to lead diabetes. T2D happens when the body does not use insulin well (insulin resistance), as a result, blood glucose levels rise.



Mohammad Akrami
Researcher & Writer

THE DISCOVERY OF INSULIN



Frederick Grant

Banting

1891-1941



In 1889, **Joseph von Mering and Oskar Minkowski**, discovered the role of the pancreas in diabetes by removing the pancreas from dogs. After removing the pancreas from the dogs, they found all the signs and symptoms of diabetes, and the dogs died shortly after. Importantly, the day after the pancreas was severed, they noticed that many flies had accumulated in the animal's urine. The reason for that was the sweetness of the dog's urine, because by cutting the pancreas, the dog became diabetic. It turned out that the role of the pancreas is to regulate the macronutrient digestion and hence metabolism. After that many scientists tried to treat diabetes this way, but remained unsuccessful.

In 1922, Sir Frederick Grant Banting, with the help of his colleagues Charles Herbert Best and James Bertram Collip discovered a way to treat diabetes, and they discovered and produced insulin for this purpose. The innovation of Banting and his colleagues was that they found that other scientists' failure to find insulin and separate it from the pancreas was due to the destruction of its enzymes during extraction, and because of this, they used a creative way for separation and then was experimented on human as a successful way to control the diabetes. Sir Frederick Grant Banting was a Canadian physician, medical scientist, and painter. He was born on November 14, 1891 in Alliston, Ontario, Canada.

Charles Herbert

Best

1899-1978



James Bertram


Collip

1892-1965



After graduating from high school in 1910, he entered Victoria College, which was overseen by the University of Toronto. He studied art at this college. But the first year of study did not get acceptable grades, so the next year he took the entrance exam for medical program and in 1912 he was admitted to medical school.

In 1923, Banting was awarded the Nobel Prize in Medicine, because he was the first person who cured diabetic patients with insulin. He shared the honours and award money with his colleagues. He received the award at the age of 32 and as to this day, he remains the youngest Nobel laureate for Physiology/Medicine.



Insulin is a peptide hormone with a combination of 51 amino acids, and has a molecular mass of 5808 Da. This hormone is secreted into the blood from the beta cells of the islets of Langerhans in the endocrine part of the pancreas, and the name insulin is derived from the Latin word "insula" meaning island. It is also one of the hormones that has various effects on metabolism and other functions of the body.

INSULIN

Insulin regulates the metabolism of carbohydrates, proteins and fats by increasing the absorption of glucose from the blood into liver, fats and skeletal muscle cells. It takes sugar from the blood and transports it to the body's cells so that the body can use that sugar as energy. Insulin affects the liver cells, causing them to take up glucose from blood and store it as glycogen, thereby reducing blood sugar, and increase energy by accumulating glycogen in muscle cells as a source. In the absence insulin in the blood, cells are unable to use glucose as fuel and they will start malfunctioning, and body uses fat as a source of fuel. It stops the use of fat as a source of energy by affecting on adipose tissue. Insulin also has several other metabolic effects, such as stopping the breakdown of proteins and fats.

YOUTH SCIENCE CANADA (YSC)

A Canadian Organization Empowering the Local Youth for STEM Research

Youth Science Canada

is a Canadian organization promoting the STEM research among Canadian students. Its basic purpose is to fuel the curiosity of Canadian youth through science, technology, engineering and mathematics projects so that students during their university time, create passion for research career.

Youth Science Canada organize an annual **Canada-Wide Science Fair (CWSF)** where 500 young scientists from grades 7-12 are chosen among more than 25000 applicants every year from each city of Canada by the selection committees of 100+ affiliated member organizations to display their science models describing social benefits to the thousands of visitors each year. Nearly \$1 million is given every year in awards and scholarships under several categories during the Canada-Wide Science Fair which creates very strong competition among participants.





Youth Science Canada aimed to build the capacity and all skills required by Canadian youth to identify and solve their social problems. Hundreds of seminars, training workshops and interactive sessions are organized for the Canadian youth in all states of Canada, For this purpose, they have developed a huge bank of educational resources for smart science teachers and students to increase the productivity.

STEM (Science, Technology, Engineering, Mathematics) research is the basic ground required to develop a technologically advanced nation.

Youth Science Canada network has 8000+ nationwide dedicated volunteers and have involved about half a million of Canadian bright and inquisitive minds in 100+ STEM projects all over the Canada.



Fatemeh Shahabi
Writer & Student

CANADA FOUNDATION FOR INNOVATION (CFI): A NOT-FOR-PROFIT ORGANIZATION TO INVESTS ON CANADA'S BRIGHT MIND



M. Irfan-maqsood, Ph.D.
Writer & Editor-in-Chief

Innovation is the only gate for any nation to remain at the forefront of exploration and knowledge generation while making meaningful contributions at global level to generate social, health, environmental and economic benefits. **Canadian Foundation for Innovation (CFI)** created through the Budget Implementation Act 1997 to enhance Canadian contribution in the global innovation industry via strengthening the capacity of Canadian universities, colleges, research hospitals, and non-profit research institutions to carry out world-class research and technology development that benefits Canadians and citizens of the world.

CFI has a very special funding formula of 40% connecting the researchers and research bodies with other funding organizations for the rest 60% which are mostly governmental funding organization and private corporations resulting in an enhanced nation-wide innovation networking. CFI supervise the innovation aspects in every research project they are funding so to keep the Canadian researchers and research bodies as the leaders in the world.



CFI is also helping Canada to attract and retain the world's top talent, train the next generation of researchers, support private-sector innovation and create high-quality jobs that strengthen Canada's position in today's knowledge-base economy.

An interesting project funded by Canadian Foundation for Innovation is the project of **Prof. Simone Dalla Bella** from **Montréal's International Laboratory for Brain, Music, and Sound Research** which is aimed to solve the problems for people with cognitive impairments.

Simone is working to find out the answers of following;

- * *How can music help us in our daily tasks?*
- * *How can music slow down the deleterious effects of diseases such as Parkinson's?*
- * *Why is it that some people who are perfectly capable of hearing a beat still can't dance.*

CFI receives **Expressions of Interest (EOI)** from all over the public and private research organizations from all over the Canada for funding focusing the innovation in research, technology and industry. CFI is governed by a Board of Directors, appointed for a five years' term and meets three to four times a year. An annual public meeting is held each year.



BRANDON UNIVERSITY

A UNIVERSITY IN THE CENTER OF NORTH AMERICA



Hooman Kazemi
Tutor & Content Editor

Brandon University (BU), established in late July 1899 as Brandon College is a public university located in the city of Brandon, State of Manitoba, Canada. It is one among the best universities of Canada having about 3500 students predominantly undergraduate learning mostly liberal arts and sciences.

For about seventy years, Brandon University has been under the management of McMaster University and later on was chartered as full independent university by the President John E. Robbins in 1967.

Brandon University is a full member of the **Association of Commonwealth Universities (ACU)**, the **Association of Universities and Colleges of Canada (AUCC)**, the **Canadian University Society for Intercollegiate Debate (CUSID)**, and its sports teams known as Brandon Bobcats have been members of the Canadian Universities Sports teams for several years. Because of its speciality in arts, Brandon University has its own Brandon University Orchestra where students enhance their professional music skills while studying at the university. BU has been ranked among **top 20 undergraduate universities** in the annual ranking of Canadian post-secondary institutions by Maclean's Magazine.

It has always been a leader in providing high quality education in arts, education, sciences, music and health studies.

Pre-professional and Masters programs, as well as innovative and award winning outreach programs, are offered by Brandon University in a personalized learning environment.

Brandon University offers various courses for undergraduate, graduate students in a variety of disciplines.

These field of studies are classified into **different faculties** such as Faculty of Arts, Faculty of Education, Faculty of Graduate Studies, Faculty of Health Studies, Faculty of Science, and school of Music.

BU is the best cost-effective destination for higher education in Canada because the average annual tuition fee is estimated at around \$ 12,000 and almost same amount for living and other expenses i.e. \$ 10,000 – 12,000 including accommodation, insurance, registration, club and sports fee etc.

The Government of Canada supports an Aboriginal Bursaries Search Tool that lists over 680 bursaries, scholarships, and other incentives offered by governments, universities, and industry to sponsor Aboriginal post-secondary participation such as Maria Ross Scholarship; Isabelle Douglas Estate Scholarships; Manitoba Blue Cross George J. Strang Scholarship; Gerdau MRM Steel Inc. Annual Scholarship; Scotiabank Scholarships for Aboriginal students in financial need; ; Donna and Bill Parrish Scholarship for Aboriginal Students; Manitoba Industry, Economic Development and Mines Bursaries in Geology; First Nations Teacher Education Scholarships; Manitoba Citizens' Bursary Fund for Aboriginal Peoples; Louis Riel Institute Bursaries; Manitoba Hydro Employment Equity Bursary.

If you are looking for admission in this cost-effective and top20 undergraduate university of Canada, you should have a minimum grade point average of 14 (GPA 4.3), with a minimum score of 550-567 TOEFL or a minimum of 6.5 score in IELTS. Every year from January 15 or March 1, BU accepts applications for admission from all over the world and confirm the admissions within one month after the deadline is over so that you can then apply for a Canadian student visa with provided confirmed admission letter. In general, by studying at Brandon University, you can take full advantage of the university facilities and experience a new environment with high standards of living at very low fee and low cost of living in the heart of Canada and the North America.



SPIRIT OF THE WINNIPEG AWARDS

Canadian Rising Stars (Start Up) &

Technology Awards by

The Winnipeg Chamber of Commerce

Encouragement for technology development and start up building to commercialize the innovative ideas in the locality is the part of the Canadian lifestyle and one of the most important part of Canadian academic ecosystem, is its integration with the society for mutual benefits.

All over the Canada, there are several programs honouring the local organizations who are creating an impact to making a difference and the city a better place for living, work and doing business.

The Winnipeg Chamber of Commerce is a community leader of Winnipeg city business community connecting almost all kinds of local business in Winnipeg and promoting the local business under several of its unique programs such as Spirit of Winnipeg Awards, CODE (Commitment to Opportunity, Diversity and Equity) and a wonderful Small Business Advisory Council.

Spirit of the Winnipeg Awards help every year in following nine categories;

1. Rising Star (also known as start-up) Awards
2. Technology Awards
3. Environment and Energy Awards
4. Workplace Culture Awards
5. Non-profit and Social Enterprise Awards
6. Trade Awards
7. Design and Building Awards
8. CODE (Commitment to Opportunity, Diversity and Equity) Awards
9. Spirit of Winnipeg - Special Awards



Winnipeg Chamber is aimed to build the city as a cost-competitive, technologically innovative city with a skilled labour force and modern infrastructure to support existing and emerging industries for a bright economic future.

Winnipeg is the capital and largest city of the province of Manitoba in Canada. It is centred on the confluence of the Red and Assiniboine rivers, near the longitudinal centre of North America. Winnipeg with a population of 749,607 and a metropolitan population of 834,678, making it the sixth-largest city, and eighth-largest metropolitan area in Canada. Known as the "Gateway to the West", Winnipeg is a railway and transportation hub with a diversified economy.

Estimates of the date of first settlement in this area range from 11,500 years ago for a site southwest of the present city to 6,000 years ago at The Forks. This multicultural city hosts numerous annual festivals, including the Festival du Voyageur, the Winnipeg Folk Festival, the Jazz Winnipeg Festival, the Winnipeg Fringe Theatre Festival, and Folklorama.



Nasir Ijaz
An Entrepreneur

The Winnipeg Chamber of Commerce uses its position as a community leader, a member business supporter and a public policy influencer to build a city where industry prosperity, technology development and community wellness grow.

Core Values:

1. Member-Centric
2. Diversity & Inclusion
3. Resilience and Agility
4. Integrity
5. Independent & Non-Partisan

Short-term Goals:

1. Be a leading, action-focused Chamber of Commerce in all facets in driving the importance of diversity and inclusion
2. Empower members to weather, adapt and thrive within COVID and post-pandemic landscape
3. Enhance our position as the top association brand for business value among businesses in Winnipeg
4. Secure Chamber financial position for continued long term growth, investment and financial resiliency

Note: The Winnipeg Chamber of Commerce, is an active partner with both the Canadian Chamber of Commerce and the Canadian Global Cities Council.



NORTH FORGE TECHNOLOGY EXCHANGE

– A Gateway of Successful Innovation in Manitoba



North Forge Technology Exchange is an incubator and accelerator acting as a powerhouse for entrepreneur community fuelling Manitoba's innovative science-based, technology-enabled, and advanced manufacturing start-ups. Armed with North America's largest non-profit fabrication lab, NFTE operates out of 27,000 square feet across Innovation Drive and Innovation Alley in Winnipeg, Manitoba, Canada.

NFTE has a very unique online four-stage Founders Program irrespective to the type and size of a Manitoba residents (individuals & start-ups). NFTE provides comprehensive resources, combined with regional knowledge and international experience. There is a special foundational business training and other services such as access to experts, networking, mentorship, a hot desk, pathfinding to growth capital, and ongoing entrepreneur-in-resident support for all technology-enabled businesses in Manitoba.

North Forge Technology Exchange offers a network of services to accelerate innovation and commercialization in Manitoba, classified into following three main categories;

1. Advanced ICT Lab
2. Investor Intelligence
3. Market Intelligence





North Forge's Fabrication Lab has the equipment that makes it possible to produce prototypes without the wait. North Forge is the largest publicly-accessible fabrication laboratory in Canada. It is funded by Canadian federal government, the Manitoba provincial government, and various private sector donors, as well as membership fees charged to the users of the facility. Specifically, its **IoT Innovation Lab** offers the ability to create printed circuit boards to support and connect components in a new design. The lab's 3D printing room is another area that makes it possible to produce, tweak and test prototypes affordably.

NFTE also provides assistance to those enrolled in their Startup Program for applying startup grants and raise funding on rapid basis.



Mohsen Karimi
Writer & Project Manager

Are You Having...



- 1- Sufficient knowledge about a topic or
- 2- An imaginary story about a myth or
- 3- Finished your university thesis or
- 4- Lots of pictures with full captions or
- 5- Collection of drawing of your kids or
- 6- Any content like diary, memories or notebook etc

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then

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reputation should be your
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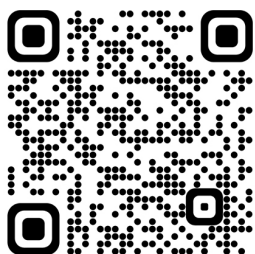
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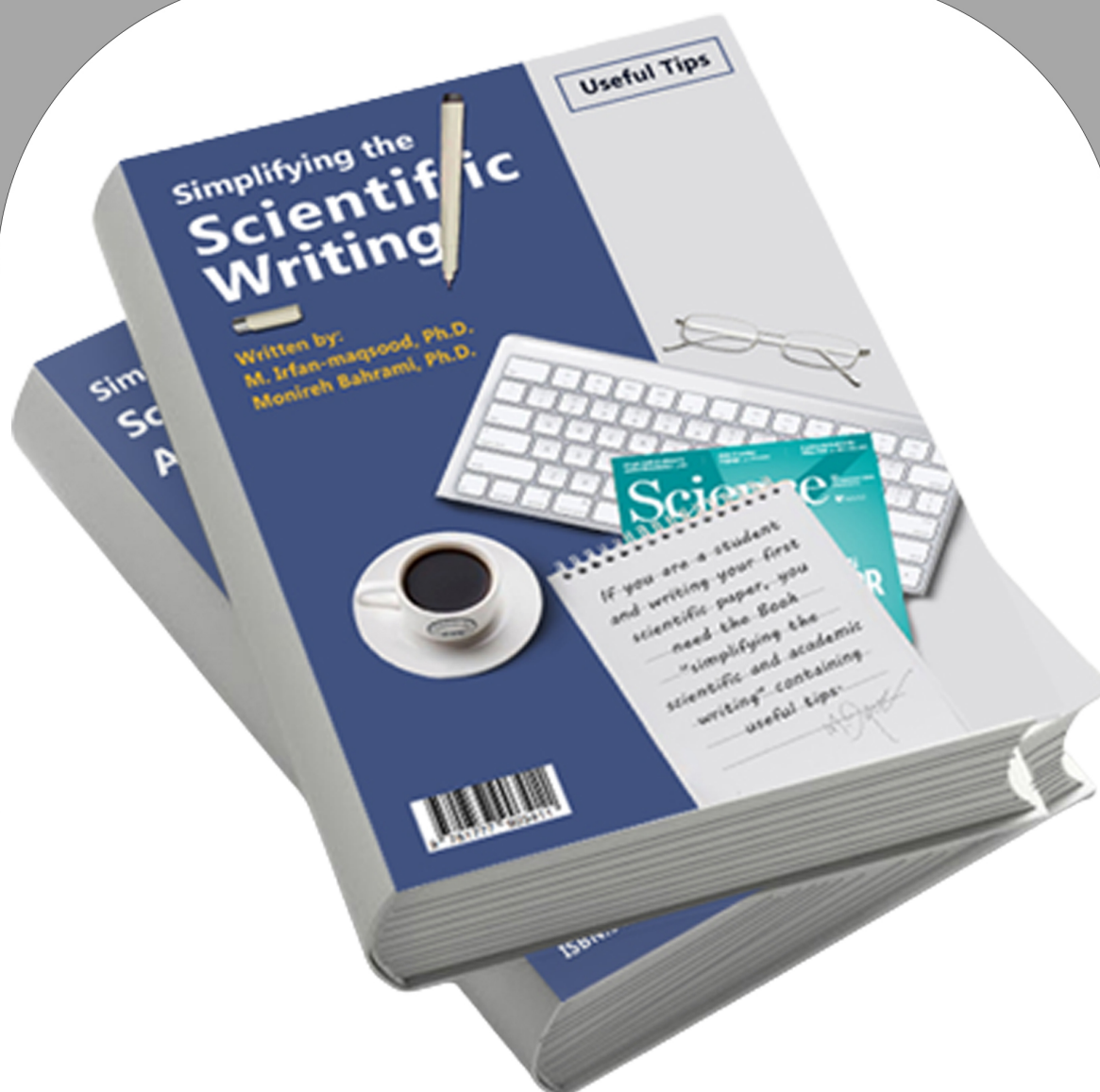
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