

THE MANITOBA TECHNOLOGIST

Certified Technicians and Technologists Association of Manitoba

27 newly certified registrants

Welcome and congratulations!



Registrants surge

Students rally behind new course launch

Registrant profile

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Scholarship and award winners

Awards ceremony held
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Workshop well attended

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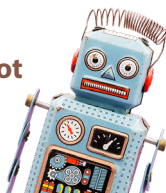
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Our technology ring is a sign of your profession

Wear it, show it and take pride in wearing it

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Our Board of Directors

Thank you for all you do!

CPD helps expand your skills

If you use one of our professional titles you are required to complete CPD

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President's message

As we begin 2026 I am filled with optimism about the direction of CTTAM and the strength of our association. The past year has demonstrated what is possible when we stay focused on growth, connection, and collaboration — and those themes will continue to guide us in the months ahead.

Registrants matter

One of the most encouraging trends has been the continued growth of our registrations. I am proud to say that for 2025, CTTAM had a total registration of 3,499 individuals strong, in comparison, for 2024 there were 3,166 total registrants. Active technologists, technicians and students continue to be a driving force behind this momentum.

This growth is more than a number; it reflects the relevance of the profession and the value registrants see in belonging to a strong and engaged professional community. CTTAM's focus remains on supporting registrants at every stage of their career, from students and new graduates to seasoned professionals, while ensuring our association continues to evolve alongside the needs of industry and the public.

Equally important is our commitment to serving our registrants across the entire province. CTTAM's registrants work in diverse communities, industries and environments. Our association must reflect that diversity. Over the coming year, we will continue to strengthen outreach beyond Winnipeg, ensuring members throughout Manitoba feel connected, supported and represented. A truly provincial association is one that listens, engages and delivers value no matter where our members live and work.

Staying engaged

As we move forward together, I encourage every member to stay engaged — participate in training events, to connect with peers and to share your ideas. The strength of our association comes from its registrants and with continued collaboration, positivity and shared purpose.

Thank you for your ongoing commitment to the profession and to one another. I look forward to what 2026 will bring.



Shannon Nordal, C.E.T.
CTTAM President



About Shannon

Shannon graduated with honours from the Environmental Engineering Technology program at RRC Polytech. She was awarded Co-operative Education Manitoba's 2017 Co-op Student of The Year, and received a national honourable mention from CEWIL Canada. In 2019 Shannon was awarded the CTTAM President's Volunteer Award for helping drive student registration numbers and participating in CTTAM's strategic planning session. Shannon works at RRC Polytech in the Civil Engineering Technology and Construction Management Department, instructing the environmental management course.

Turning challenges into opportunities

Cold weather extremes, frost quakes and news stories of exploding trees, it was a wild few days across North America with dangerously frigid weather impacting us in January.



Many of our registrants have to work outside, managing their jobs in all kinds of weather challenges. Working outdoors in varied, extreme weather requires a comprehensive safety approach that combines proper gear, training and operational adjustments to mitigate risks like heat stress, hypothermia, frostbite and UV exposure. It also requires to be adaptable, push our comfort levels and work well together.

Navigating

We all experience challenges and roadblocks in our careers. Navigating workplace challenges may require us to shift from a reactive *problem-solving mode* into a proactive *growth mindset* that treats roadblocks as strategic detours. Organizations and individuals that thrive in this environment use difficulties to catalyze innovation, build resilience and sharpen competitive advantages.

Reframe challenges as growth assets

Strategies I have used to adopt a growth mindset are to:

- *View setbacks not as failures but as opportunities* — The ability to learn and unlearn quickly is often more valuable than skilled technical qualifications;
- *Identify skills gaps* — Use recurring roadblocks, such as missed targets or delivery breakdowns to pinpoint specific capability gaps and develop solutions;
- *Problem solve* — Successfully navigating a crisis positions you as a dependable and as a resourceful team member and
- *Leverage collaborative innovation* — Challenges push teams out of comfortable routines. Use these moments to encourage creative thinking.

As a leader I have focused on:

- *Cultivating a safe workplace* — Create an environment where employees feel safe to experiment and fail. In an increasingly automated workplace, human-centric skills such as emotional intelligence, ethical judgment and empathy—are the primary drivers of sustainable performance and high-trust cultures and
- *Communication* — Even if answers are incomplete, regular communication during periods of change provides staff with security, safety and inclusion.

Every difficulty holds the potential to enrich our lives in ways we can't always foresee. By embracing adversity, we build the strength to turn challenges into learning opportunities with positive outcomes.

In this issue — new appointment and registrant profile

Jason Peters, C.E.T., a structural CAD specialist and CTTAM registrant since 2014, has been appointed as a Director for Technology Accreditation Canada and as the CTTAM representative. Welcome Jason!

Jairo Mosquera Rivas, C.E.T., P.Eng., a SCADA engineer at the pork production company HyLife, is featured for his expertise and contributions to the profession.

Professional resources

CTTAM certified — Information on becoming a registrant or maintaining your professional status can be explored on our [site](#).

Also, there are many companies that have tips to help you work safe in all kinds of environments and how to handle challenges with a positive outcome.



Robert Dhabe

C.E.T., FEC (Hon.), IntET (Canada), CTTAM CEO and Registrar

Check out our new registrants ✓

CTTAM certified!



Our salary surveys consistently show that employers value and prefer to retain CTTAM certified employees.

Technologists

Alexander Etsell , C.E.T.	Crosier Kilgour	Jocelyn Manness Kitchur , C.E.T.	TCF West Inc.
Amandeep Ubhi , C.E.T.	Magellan Aerospace	Kiarra Belmonte , C.E.T.	Price Industries Ltd.
Andrae Johnson , C.E.T.	BellMTS	Kyle Coyston , C.E.T.	City of Winnipeg
Ankit Kerai , C.E.T.	Government of Manitoba - MTI	Lucia Moon , C.E.T.	Government of Manitoba - MTI
Charles Nguyen , C. E.T.	Manitoba Hydro	Morgan Murray , C.E.T.	Sison Blackburn Consulting Inc.
Christopher Mosiek , C.E.T.	Standard Aero	Olisaeloka Okaka , C.E.T.	
Darrian Reidulff , C.E.T.	Shermco Industries	Raynard Go , C.E.T.	Magellan Aerospace
Dat Pham , C.E.T.	Integrated Control Systems Inc.	Sean Chittock , C.E.T.	RRC Polytech
Drake Glas , C.E.T.	Graham Construction & Engineering Inc.	Tyrene Crowe , C.E.T.	Edifice Engineering
		Wei Wu , C.E.T.	Corrosion Service Company Limited
Harjot Birdi , C.E.T.	Star Truss	Whitney Ballantyne , C.E.T.	MORR Transportation Consulting Ltd.

Technicians

Alvin Magana , C. Tech.		Kody Spikula , C. Tech.	City of Winnipeg
Danushkumar Baskar , C. Tech.	IHT Group	Tarik Iraki , C. Tech.	Rogers Communications
Dmitry Lim , C. Tech.	Pillap Property Management Inc.	Wei Liu , C. Tech.	Vidir Solutions

Certified registrants may also vote in our elections, hold office and participate on one of our many committees. Registrants can access discounts on different services and can explore career opportunities at the Canadian Technology Employment Network job bank at cten.ca.

How to certify

Our certification process is designed to be easy to navigate with a clear process track for applying for certification, all completed online. Applicants for certification/membership with CTTAM, first need to apply online at Technology Registrations Canada.

In remembrance

Our condolences to their families and friends



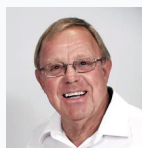
Steven Spry, C.E.T.

Steven was a CTTAM registrant since January 2000, a transfer from OACETT. He passed on December 23, 2025.



Bill Zuk, C.E.T.

Bill was a CTTAM registrant since May 1974. Bill received our 50-year, long-service pin in 2024. Bill worked with our CEO/Registrar at the City of Winnipeg's Traffic Signals Branch. He passed on January 6, 2026.



Gary Fund, C.E.T.

Gary was a CTTAM registrant since 1976. He was a CTTAM life member and was Chairman of the Certification Board for 14 years. He passed on January 13, 2026.



Investing in their futures

Support helps students realize their full potential



An awards ceremony was held on Thursday, January 22 on RRC Polytech's Notre Dame Campus.

CTTAM scholarships were presented to students who are entering their second year of either:

- Civil Engineering Technology;
- Electrical Engineering Technology;
- Electronic Engineering Technology;
- Instrumentation and Control Engineering Technology or
- Mechanical Engineering Technology

Scholarship awards winners were selected based on their academic standing. Representing CTTAM at the awards ceremony were **Robert Okabe**, CEO and Registrar and **Shannon Nordal**, President.

Scholarship and award winners

CTTAM scholarships

John Alevis Camunggol, Josuha McDonald, Mary Rose Payumo, Jarvis Christenson

Robert Okabe Achievement Award for Civil Engineering Technology

Brady Michaluk and Benjamin Martinez Cuevas

Terry Gifford Memorial Scholarship Award

Cameron A. Ducharme



From l to r: Robert Okabe, CEO/Registrar, John Alevis Camunggol, Josuha McDonald, Mary Rose Payumo, Jarvis Christenson and Shannon Nordal, President.



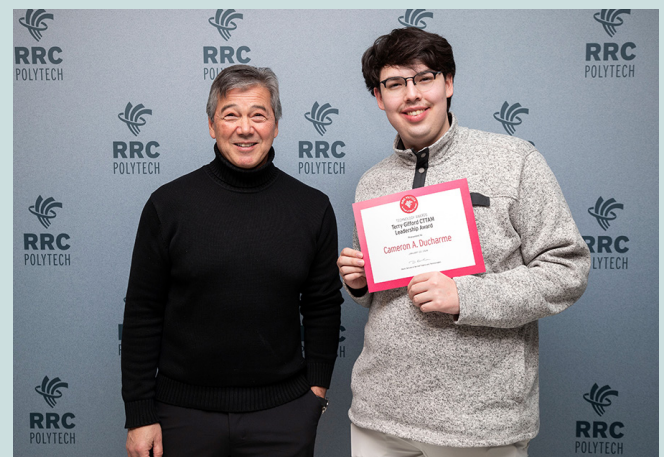
Terry Gifford Memorial Scholarship Award

From l to r: Phil Klassen, RRC Polytech Instructor and Cameron A. Ducharme.



Robert Okabe Achievement Award for Civil Engineering Technology

From l to r: Brady Michaluk, Robert Okabe, CEO/Registrar and Benjamin Martinez Cuevas.



Terry Gifford Memorial Scholarship Award

From l to r: Robert Okabe, CEO/Registrar and Cameron A. Ducharme.

New insurance group

CTTAM has partnered with The Personal

Registrants can benefit from a host of advantages and discounts



After more than 20 years of partnership with TD Insurance, we are transitioning our home insurance affinity program to The Personal.

This change reflects our ongoing commitment to securing competitive rates and strong service for our registrants.

What this means.

Existing TD policyholders

If you currently hold a home insurance policy with TD Insurance, you may continue with your existing coverage. There is no requirement to switch at this time.

Why the change?

The decision to move to The Personal was based on several factors, including:

- Member feedback regarding customer service challenges with TD Insurance, such as long wait times, difficulty resolving claims, and inconsistent communication;
- Significant and sometimes unexplained premium increases reported by registrants and
- Strong customer satisfaction ratings and competitive pricing offered by The Personal.

Many individuals who have switched to The Personal have reported meaningful savings while maintaining similar levels of coverage.

Considering a switch?

If you are thinking about moving your home insurance to The Personal, please keep the following in mind:

- **Cancellation fees:** Check whether your TD policy includes a cancellation fee. In some cases, it may be more cost-effective to switch at renewal;
- **Avoid coverage gaps:** Ensure your new policy starts immediately after your current one ends and
- **Your responsibility:** If you purchase a new policy with The Personal, you must contact TD Insurance directly to cancel your existing coverage.

We encourage registrants to review their options and choose the solution that best meets their needs.

For more information or to request quote through The Personal, please visit our benefits **website** section or contact The Personal **directly**.



Annual salary survey

Your feedback is needed

Strong participation in our salary survey is essential as it provides valuable insights into pay benchmarks within your professions.

Look for a salary survey link to show-up into your email inbox in early March.

It doesn't take long to complete. We will share the survey results on our website and in an upcoming newsletter.

Coming to your email inbox soon!



New CTTAM TAC representative

Jason Peters, C.E.T., named as TAC Director

Technology Accreditation Canada (TAC) provides across Canada, accreditation audit services for engineering technology and applied science programs in partnership with educational institutions. This work ensures that students receive the highest-quality education possible, and in turn CTTAM's registrants are elite professionals. Their accreditation system includes clear, auditable processes and documentation, standards development and auditor training.

Jason Peters, C.E.T., has been appointed as a TAC Director and their CTTAM representative. Jason has been a CTTAM registrant since June of 2014. He has a diploma in Structural CAD Technology from Red River College.



He works as a project manager for Lavergne Draward & Associates Inc., a structural engineering firm based in Winnipeg

Auditors required

TAC is always looking for new auditors. Being a TAC auditor provides a unique opportunity to share industry experience and utilize analytical techniques to assess whether an engineering technology or applied science program meets the standards of the profession. For more details on the audit process or becoming a TAC auditor, please visit the TAC [website](#).



CTTAM has been a TAC member since 2019.

Previous rep

Ken Mills, C.E.T., represented CTTAM for many years as a TAC Director. Thank you to Ken for supporting our association and for volunteering in such an important position.

Our strategic partners

Building on our industry connections

Having strategic partnerships with like-minded organizations, provides us and our associates with mutual opportunities to build brand loyalties with our members, along with increased opportunities to attract and retain highly-skilled technologists and technicians.



Keep in touch, be the first to know!

CTTAM news

Subscribe to our [CTTAM news](#) to get posts on training, news and events sent directly to your in your email inbox. If you are not receiving these emails, please contact us at admin@cttam.com or call 204-784-1081. We will gladly help update your email address and/or your contact information on your registrant profile.





Jairo Mosquera Rivas, C.E.T., P.Eng.

Registrant since May 2024 — Lead SCADA Engineer at HyLife, a premium pork producer



As a Lead Supervisory Control and Data Acquisition (SCADA) engineer Jairo designs, implements and maintains systems that monitor and control industrial processes, working with programmable logic controllers (PLCs), software and hardware. This role requires advanced knowledge in automation engineering, industrial networking, database systems, cybersecurity principles and cross disciplinary technical leadership.

Please tell us your employer's name, your title and provide a short job description.

I am the Lead SCADA Engineer at HyLife Foods, a pork processing company located in Manitoba. I am responsible for the full life-cycle administration of the company's Ignition SCADA infrastructure, including system architecture, security hardening, redundancy and performance optimization.

My work also involves leading the development of Industrial Internet of Things (IIoT) solutions that integrate field devices, PLCs, sensors and enterprise level data systems to support real time monitoring, advanced analytics, and data driven operational decision making.

Where were you born? Where did you grow up?

I was born and raised in Cali, Colombia. The city's strong technical and industrial environment played a key role in shaping my early interest in electrical systems, automation and applied problem solving.

Where study programs did you take?

I hold a degree in Electrical Engineering from the Universidad Tecnológica de Pereira (UTP) in Colombia. Prior to that

I completed a technical high school program in electricity and electronics at INEM in Cali. After immigrating to Canada, I earned a Communications Technology diploma from

Assiniboine Community College, which provided essential training in modern industrial communication standards, network infrastructure and digital systems integration.

What were your interests in high school?

My interests centered on electricity, electronics and system behavior. I spent much of my time repairing equipment, building circuits and studying how electrical and control systems operate. This hands-on technical exposure laid the foundation for my engineering career.

Do you have a person/mentor in your life that influenced your education and career choices?

Multiple instructors and technicians influenced my development. Their strong technical expertise and ability to apply engineering principles to real world challenges motivated me to pursue a similar path. My family also emphasized discipline and education as the most reliable tools for long-term professional growth.

What are your main job responsibilities?

As Lead SCADA Engineer, my responsibilities include:

- Managing, maintaining and optimizing the Ignition SCADA platform across the facility;
- Designing and deploying IIoT based applications to enhance process visibility, traceability and operational efficiency;
- Integrating data from PLCs, sensors, industrial networks and cloud connected systems using protocols such as OPC UA, MQTT, Modbus, and Ethernet/IP;

- Troubleshooting and resolving issues related to automation, industrial communications, and system interoperability;
- Developing scalable work flows standardizing engineering practices, and producing detailed technical documentation and
- Collaborating with different teams to support digital transformation initiatives and continuous improvement projects.

How do you like to spend your time outside of work?

I dedicate time to learning emerging technologies, experimenting with personal automation and data integration projects, and staying current with industry trends.



I also value quiet time at home, play basketball on weekends and attend Catholic mass.

Additionally, I serve as a Board Director for the Colombian Canadian Association of Western Manitoba Inc.

How do you like to start your day?

I begin my day by reviewing operational priorities, assessing pending tasks and organizing my workflow.

A structured start allows me to maintain situational awareness and ensures that critical engineering activities are properly sequenced.

How do you like to end your day?

I end the day by evaluating progress, documenting key actions, and preparing the next steps for ongoing projects. Even

Continued on page 11.

Jairo Mosquera Rivas, C.E.T., P.Eng. has worked at HyLife since 2021.



Registrant profile

Jairo Mosquera Rivas, C.E.T., P.Eng.

when tasks remain open, maintaining a clear operational overview helps ensure continuity and reduces cognitive load.

What's one thing you're learning now or learned recently?

I am currently expanding my expertise in data collection technologies such as Node RED, API based integrations, and advanced industrial communication frameworks.

My focus is on designing modular, reusable, and fault tolerant work flows that simplify complex data pipelines. I am also exploring the application



"Every year brings new challenges to tackle and fresh opportunities to learn, making this an incredible environment for any engineer to grow and thrive. I truly believe that HyLife is one of the most supportive and inspiring workplaces out there. I am proud to be part of the HyLife team."

Jairo Mosquera Rivas, C.E.T., P.Eng.

of artificial intelligence to extract insights from existing process data. Modern AI tools allow meaningful analysis and forecasting even with relatively small datasets, opening new opportunities for predictive modeling and process optimization.

My long term objective is to continue driving digital transformation at HyLife by implementing innovative, scalable, and high-value engineering solutions.



Read about Jairo's employer, HyLife, on page 10.

New workshop well attended

This first-time offered session received positive feedback by offering a valuable mix of theory and practical, real-workplace examples.

The From Good to Great: How Lean Transforms Technical Work — A Lean White Belt Certification workshop was held in early February. Students were able to learn how to deploy Lean White Belt methodology to improve the quality and capability of business processes.

This certification workshop is an entry-level credential providing foundational knowledge of Lean principles, which include identifying waste and improving process flow.



"Thank you for a great course and introduction to Lean. Erwin did a great job engaging the entire room and making us all a part of the learning. My entire team is excited about the potentials this showed us."

Patrick Jolicoeur C.E.T.

"It was fantastic. Lecture in the morning with hands-on exercises in the afternoon were great!"

Andrew Procca, C.E.T.

"The LEAN workshop gave me practical tools to identify process efficiencies and reduce waste in the daily work of my team. While not created for the water and wastewater industry, lean principles apply directly to the work we do, offering clear ways to streamline operations and improve service delivery."

Moriah Gross, C.E.T.



Lean workshop participants are awarded their industry-recognized certifications.





HyLife — Canada's premium pork leader

A leading pork producer and global exporter of high-quality pork

The company is a fully-integrated company, they oversee — feed and animal care from production to processing. The base of their operations is located in Steinbach, a 40-minute drive from Winnipeg. Here they have their head office, feed mills, sow, finishing and nursery barn sites, fleet maintenance, wash and bake bays and their primary distribution centre.

Background

HyLife's first facilities were in the small town of La Broquerie, located 70 kilometres southeast of Winnipeg and around 10 kilometres east of Steinbach. They have since grown into a global player, highlighted by their flagship processing plant in Neepawa, Manitoba.

They export to more than 20 countries worldwide. Their vision is to be the best premium pork company in the world.

Operations

Their operations include feed production, raising animals, transportation and processing. They produce 2.65 million hogs per year and process 2.34 million hogs at specialized pork plants in Manitoba, supported by more than 2,600 employees.

Market expansion

Since 2011, they have expanded their market reach, exporting to Japan, providing specialized pork products for their marketplace.

As part of its brand marketing strategy, HyLife operates a restaurant called HyLife Pork Table in the Daikanyama district of Tokyo, Japan.

Leadership recognized

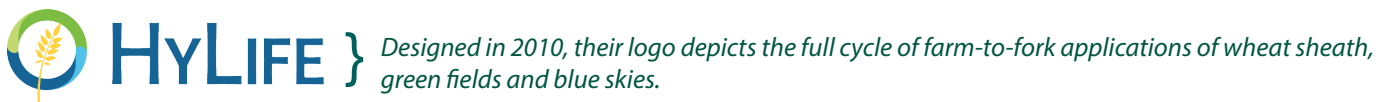
This January, Karan Sangfai, HyLife's President and Chief Executive Officer, was appointed to serve on Manitoba Premier's Business and Jobs Council's International Trade Committee. This International Trade Committee will play a critical role in supporting Manitoba's efforts to diversify trade relationships — both domestically and globally — at a time when global economic pressures and tariffs continue to impact Canadian industries.



The committee is focused on trade diversification, workforce development and tourism, ensuring the council's work continues to reflect the province's evolving economic priorities.

One of Canada's Best Managed Companies

HyLife has had a Platinum Status as one of *Canada Best Managed Companies*, a status they have achieved since 2011. Check out more about HyLife on their [website](#) and social media, @hylifeld.



Designed in 2010, their logo depicts the full cycle of farm-to-fork applications of wheat sheath, green fields and blue skies.



Manitoba's pork industry

There are approximately 22,000 Manitobans who work in the pork industry. According to the Manitoba Pork website, every year, the sector contributes over \$2.3 billion, helping to fund key priority areas including education, health care and road maintenance. Pork is shipped to over 20 countries, with Japan and the United States being the top-two importing markets.

The future of renewable energy in Canada: Managing variability and uncertainty

As Canada accelerates its transition to cleaner energy sources, the growing integration of renewables, especially wind and solar, creates significant opportunities alongside notable operational challenges. Although these technologies deliver substantial environmental and economic benefits, they also add new layers of complexity to maintaining a reliable and stable electricity grid.

Variability and uncertainty in renewable generation

Wind and solar power are inherently variable: they fluctuate with weather and seasons. In Canada, where daylight hours vary significantly across provinces and wind patterns shift with geography, these variations are particularly pronounced.

For example, in Alberta — a leading province for wind deployment — the annual capacity factor ranges between 25% and 40%. Output can drop by more than 80% within six hours during calm weather events. Moreover, uncertainty — the difficulty in precisely forecasting renewable output — compounds the issue. Even with advanced weather models, predicting wind speeds and solar radiation remains imperfect, especially in regions like the Prairies or Northern territories.

Conventional power systems are designed around predictability. Coal, natural gas, and hydro plants can be dispatched as needed. In contrast, wind and solar energy require real-time system balancing and backup support to ensure reliability. If poorly managed, this mismatch between supply and demand could lead to system instability or power outages.

The challenge of grid integration

As renewable penetration rises in provinces like Alberta, Ontario, and Saskatchewan — where wind and solar capacity has grown rapidly in recent years — managing intermittency becomes more critical. *(Note: Manitoba already generates more than 95% of its electricity from renewable sources — almost exclusively hydroelectricity— and, to date, has pursued only limited integration of variable renewable energy sources such as wind and solar.)*

Without flexible backup systems or adequate storage, power grids risk becoming vulnerable to sudden drops in generation. In 2023, Ontario surpassed six gigawatts (GW) of installed wind capacity, while Alberta reached approximately four GW.

To address this, countries such as Germany and the Netherlands have invested

in predictive models that combine historical data and real-time inputs to anticipate renewable fluctuations with increasing accuracy.

Canada, with its vast weather data network and smart grid initiatives, is poised to implement similar strategies — particularly in partnership with utilities and regional grid operators.

Infrastructure and investment needs

Large-scale adoption of renewables in Canada will require significant upgrades to our transmission and distribution systems. New infrastructure must be capable of handling variable power flows and integrating decentralized energy sources like rooftop solar or remote wind farms.

According to the Canadian Electricity Association, an estimated \$350 billion CAD in cumulative investment will be required over the next two decades to modernize the electricity grid and support Canada's decarbonization goals.

Investments in smart grids — including smart meters, advanced sensors, and real-time monitoring — can improve system responsiveness and support dynamic pricing models.

These innovations will help match demand with fluctuating supply, ultimately improving grid resilience. Projects like Alberta's Southwest Reliability Transmission Project, currently under development, aim to unlock an additional 1.5 GW of renewable capacity from the province's high-potential southern regions.

Energy storage and backup technologies

One of the key enablers of renewable reliability is storage. Technologies like pumped hydro storage (PHS) and compressed air energy storage (CAES) are commercially proven but geographically limited. In Canada, PHS is most

*Continued
on page 10.*



The future of renewable energy in Canada: Managing variability and uncertainty

viable in regions with significant elevation changes — such as British Columbia, northern Ontario, or Quebec.

Grid-connected energy storage capacity in Canada exceeding one megawatt (MW) is projected to grow from 552 MW at the end of 2024 to 1,149 MW by 2030, driven exclusively by 12 projects currently under construction.

Battery storage, particularly lithium-ion systems, offers scalable solutions for urban and remote areas alike. While sodium-sulphur (NaS) technology exists globally, it has seen minimal deployment in Canada; current efforts focus on lithium-ion and emerging options like flow batteries.

Ontario has already begun pilot projects integrating battery storage with wind farms, and Alberta is exploring hybrid renewable-gas solutions to smooth output from wind installations.

The cost of reliability

Ensuring consistent energy supply comes at a cost. For example, diesel generators provide quick-response backup but are expensive and carbon-intensive. Combined-cycle natural gas plants are more cost-effective and flexible but still fossil-fuel-based. Selecting the right mix of backup and storage technologies requires a balance between economics, environmental impact, and technical feasibility.

Moving forward: A resilient, clean grid

As Canada targets net-zero emissions by 2050, renewables will play a central role in decarbonizing electricity. However, achieving this vision requires more than just installing wind turbines and solar panels; it demands coordinated planning, grid modernization, investment in storage, and adaptive system management.



The federal government's Clean Electricity Plan (2024) sets a clear milestone: 90% non-emitting electricity by 2035.

To meet this goal, interprovincial collaboration is increasing, including initiatives such as the ongoing Eastern Canadian Grid Interconnection Study, which explores how Quebec's abundant hydroelectric resources can provide flexibility to Ontario and Atlantic Canada.

To ensure a resilient energy future, Canada must continue to innovate while addressing the physical and operational challenges posed by variable renewable energy. With proactive planning and strategic investments, the country can lead by example in building a sustainable and stable energy system for all Canadians.



Registrant Ruben Eliett-Araujo, C. Tech., is a mechanical engineering professional with international experience in Venezuela and Argentina, specializing in the energy and aeronautics industries. A TEDx speaker and renewable energy researcher, he is passionate about mentoring junior professionals and embracing emerging technologies. Ruben has been a proud CTTAM registrant since April 2025.

The Manitoba Technologist

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Office hours

Our office is open from 8 am to 4 pm, Monday to Friday
Note: Appointments are required to meet CTTAM staff in person

CTTAM staff

Robert Okabe, C.E.T., FEC (Hon.), IntET (Canada)
CEO and Registrar

Lauren Gluck
Deputy Registrar/
Registration Inquiries

Marian Parreno
Registration Program Coordinator



Tour offers a behind-the scenes look

Registrants recently visited global packaging company, Winpak. The company is located in the Murray Industrial Park, close to the Winnipeg Richardson International Airport.

Thank you to Winpak for the very interesting and informative tour of their facilities.



Winpak is part of a global packaging group with thirteen manufacturing facilities in North America. They manufacture and distribute high-quality packaging materials and

innovative packaging machines, primarily used for the protection of perishable foods, beverages, pharmaceuticals, medical and personal care.

Winpak specializes in three main streams of packaging — flexible packaging, rigid packaging lidding and packaging machinery.

They are closely aligned with Winpak, one of Europe's leading manufacturers of packaging materials. Winpak's strategic alliance with Winpak allows them to access the expertise of packaging professionals worldwide and offer a broad range of products and packaging solutions globally.



CPD activity!

Investing in technology students' futures

Endowment aids in realizing one's full potential



Endowments help students by providing a source of funding that enhances the quality of their education. Your invested donations generate annual income for scholarships, bursaries, and financial aid, allowing students to reduce debt, while also funding research opportunities, modern facilities and top-tier programs.

Donations welcomed

CTTAM graciously accepts donations to this endowment fund on our registrants behalf. Donors will receive a tax receipt directly from RRC Polytech.

How the fund works

Endowments are the perfect vehicle to fund a scholarship, bursary or award. You can add to the endowment fund at any time.

Your gift can:

- Transform learning and research spaces;
- Enhance a student's experience;

- Advance Indigenous achievements and
- Support a specific program area.

It's easy to contribute

You retain the power to change your bequest at any time as your plans or financial circumstances change.

For more information, please contact our CEO and Registrar, Robert Okabe at 204-784-1080.

Information on established endowments and details on how to donate, can also be found on the RRC Polytech [website](#).

The generosity of our registrants inspires us every day. Thank you for your significant contributions.



It's time to renew your registration

Renewal reminders have been sent. Payment is required in order to keep your registration valid.

Payment is easy. You can pay online in your *registrant profile* by credit card or you can send an e-transfer. If you settle your dues account before April 1 your CTTAM certification will not be cancelled.

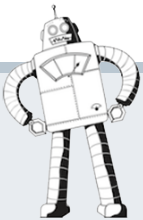


Registrant dues payment time line

February 15	45-day notice reminder
March 1	Final notice mailed
March 31	Last day to pay your registration fee
April 1	Certification cancelled and you are no longer a certified registrant

Did you know?

According to our 2025 Salary Survey, **66%** of our registrant's dues are paid by their employer.



Volunteers needed — Manitoba Robot Games

Show your passion for robotics by helping out

The Manitoba Robot Games are an exciting annual event that brings together robotics enthusiasts of all ages to compete in a variety of challenges. Participants showcase their skills in building and programming robots, testing their creations in competitions designed to inspire innovation hands-on learning in the STEM fields which encompass academic and professional disciplines in science, technology, engineering and mathematics.

Help build the next generation of innovators

Volunteers are needed to help with the upcoming Manitoba Robot Games (MRG) event being held on **Saturday, April 25**, at Tec-Voc High School.

The MRG is a fantastic organization to volunteer with for those interested in robotics. Volunteers are needed to assist with set-up and take-down, judging, timers and security. Training is provided. CTTAM is also a sponsor of this fun event.

Volunteering at the MRG is an easy and fun way to promote science and engineering in Manitoba, to help out with the education of kids and to meet other professionals.

The MRG [website](#) has additional event information, more details on the volunteer duties and a form

to fill out if you are interested in helping out. Sign-up to volunteer [here](#).

Remember to enter your volunteer time as a Continuing Professional Development activity.

Thank you to those who choose to volunteer. The games would not happen if it wasn't for the many who help out in any capacity. We hope to see you there as we all work to help inspire kids to pursue engineering and possibly one day join our organization.



Upgrade your skills

Courses still available

RRC Polytech's *Technology Solutions for the Workplace* program offers several short courses, workshops and seminars to provide academic and professional development. Courses are delivered online and during the daytime. Details can be found on their **website**.

Wastewater Treatment II

(Course code: WATR-2031 and ID 279344)

March 2-11, 2026 Fee: \$902

Registration deadline: Feb. 20, 2026

This course is intended for operator training and/or as preparation for the Manitoba Wastewater Treatment Class II Certification Exam.

Part 9 Plumbing Code Exam

(Course code: CODE-1013 and ID: 278877)

March 19, 2026 Fee: \$200

Registration deadline: Mar 6, 2026

The exam will be available online. Exams are only required for those participants who are using the course for Manitoba Building Officials' Association Certification as CBCO or BCQ.

Part 9 The House

(Course code: CODE-1008 and ID: 278878)

Mar 30 to May 1, 2026 Fee: \$830

Registration deadline: Mar. 20, 2026

Prerequisite: Introduction to the Manitoba Construction Codes. This course has been designed to enhance the knowledge of Existing Code Practitioners and those who wish to improve their competence in the practice of interpretation and implementation of the principles of the Manitoba Building Code with respect to houses.



Pride in certification

Our ring showcases your achievements

Only certified technologists and technicians can wear our ring

The sterling silver band features a repeating pattern of five gears bracketed by a maple leaf on each side. The technology ring represents the union between registrants, CTTAM and fellow registrants. It may be worn according to your preference but professional rings are traditionally worn on the pinky finger.



The maple leaf design was chosen to reflect our country and make it more likable by registrants across Canada.

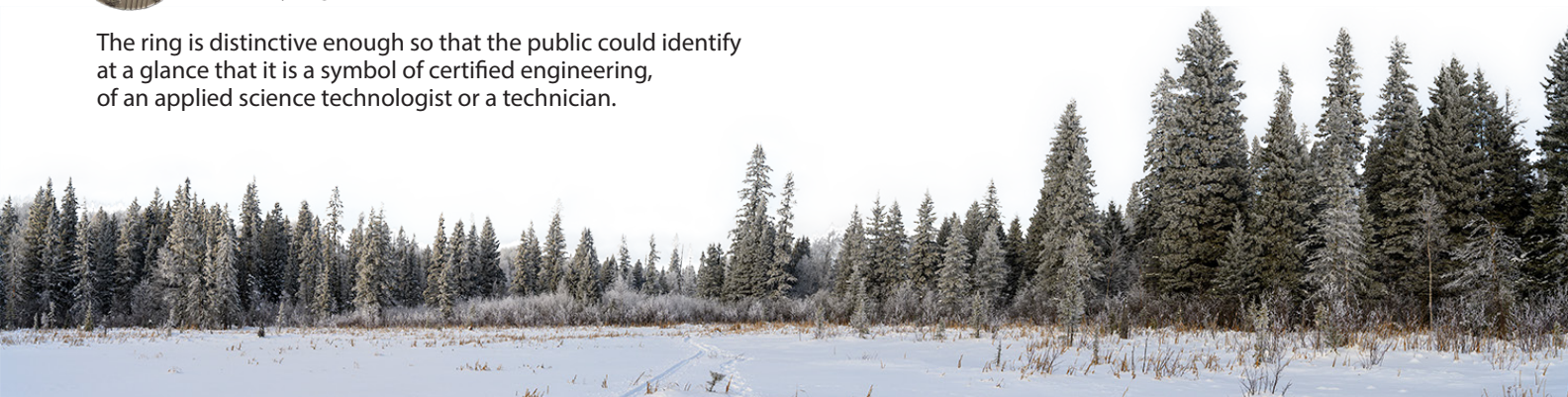
The ring is distinctive enough so that the public could identify at a glance that it is a symbol of certified engineering, of an applied science technologist or a technician.

Affordable

The technology ring is available for registrants at a cost of \$110. You will have to book an appointment for ring sizing and the pickup of any ring orders.

How to order

If you have questions or would like to purchase a ring please contact our Deputy Registrar, Lauren Gluck at 204-784-1081.





Plan to attend our AGM

Mark your calendars for Wednesday, June 17

Join us for our upcoming Annual General Meeting (AGM) to learn more about our achievements along with reports on our fiscal year. Our Board of Directors members along with staff will discuss our accomplishments, our financials and our future outlooks.

We encourage your attendance to stay informed and engaged. It is also a qualifying CPD activity.

The meeting will take place at the Centro Caboto Centre. Registration details will be emailed to you soon.

Our Board of Directors

Thank you for all you do!



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Shannon Nordal, C.E.T.

President Elect

Bernardo Pasco, C.E.T.

Past President

Josee Remillard, C.E.T.

Board Intern

Michelle Ewashko

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Directors

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Clive Bryson, C.E.T.

Peter McDougall, C.E.T.

James Schmidt, C.E.T.

Julie Schneider, C.E.T.

Key responsibilities include:

Strategic direction — They help define our mission, vision, and long-term goals, shaping our overall direction;

Oversight and governance — They establish and monitor policies, ensuring we adhere to legal and ethical standards and manage risks;

Executive management — They hire, evaluate, and set compensation for the CEO/Registrar;

Financial management — They review budgets, financial reports and major financial decisions, ensuring our financial health;

Stakeholder relations — They engage with stakeholders (including registrants, industry and government);

Risk management — They identify, assess and mitigate potential risks and.

Compliance — The Board ensures we comply with all applicable laws and regulations.

Certified? Completing CPD is a must!

CPD helps expand your skills

If you use one of our professional titles you are required to complete CPD



It's so easy

On January 1 of each calendar year, you can begin to build and record your CPD activities. Registrants are required to complete just **two activities** from the four types of professional development categories over a one-year cycle.

Record it online

CPD activity reports must be submitted online on our website, by logging into your *Registrant Profile* by December 31. Retired registrants are not required to report CPD.

If you have any questions on your CPD, please contact our Deputy Registrar, Lauren Gluck, at lgluck@cttam.com.



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can help
you create all-around
protection for your
loved ones' health,
finances, and more.

*They're exclusive to engineers,
technicians, technologists, and
geoscience professionals—and
offered at **some of the very
best rates in the industry.***



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Enjoy 50% OFF

premiums on new or additional
Term Life Insurance until
March 31, 2026.[†]

Visit **Manulife.ca/MT** or call **1 877 598-2273**

Benefits of the Engineers Canada-sponsored Term Life Plan:

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- **Coverage for your spouse** at the same discounted rates
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And that's not all. **You also have several other
affordable plan options to choose from**, including:



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Major Accident Protection



Critical Illness Insurance



[†]The 50% premium rate reduction does not apply to existing Term Life coverage. Premium rates have been reduced by 50% for new or additional Member and Spouse Term Life coverage. This 50% premium rate reduction will end, and premiums will increase on April 1, 2026, for all applicable Term Life coverage. Individual circumstances may vary. Conditions, limitations, and exclusions apply. See policy for details. You may contact one of Manulife's Licensed Insurance Advisors or your licensed insurance agent if you need advice about your insurance needs.

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