

THE FUTURE OF MANUFACTURING

MANUFACTURING EXCELLENCE FORUM



October 9th
8:00AM - 3:00PM



RM# (SRYC3250)
SFU Campus



WELCOME!



EMC

CANADA'S LARGEST
MANUFACTURING CONSORTIUM



CANADA'S LARGEST
MANUFACTURING CONSORTIUM



DAVID MUNRO
Manufacturing Consortium Manager
Excellence in Manufacturing Consortium

Welcome! What an exciting opportunity to share insights, learn from industry experts, and collaborate on solutions that will drive us toward a brighter, more innovative future. We look forward to engaging with you throughout the day!

EMC offers a broad range of programs to support manufacturers, from EMC's Energy Program and student placement initiatives to upskilling and training opportunities for both employers and their teams. EMC remains dedicated to connecting manufacturers with valuable resources for ongoing success. We hope today encourages you to join or continue participating in EMC's dynamic network!

EVENT AGENDA

9:00 AM Registration & Networking

9:30 AM Opening Remarks and Welcome from BDC

9:50 AM The State of Manufacturing

10:30 AM Networking & Coffee Break

10:45 AM Industry 4.0 and Smart Manufacturing

11:15 AM Networking Break

11:30 AM Panel Discussion: The Future of Manufacturing

12:15 PM Lunch

1:30 PM Afternoon Breakout Sessions

- *Facility Tour 1: SFU Smart Manufacturing Hub*
- *Facility Tour 2: Industrial Internet of Things (IoT) Lab at SFU*
- *Facility Tour 3: Delta Controls, in partnership with BDC*

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PROGRAM SESSIONS DESCRIPTIONS

OPENING REMARKS AND WELCOME FROM BDC

Our industry is undergoing a profound transformation, and this forum will provide a unique opportunity to discuss best practices and collaborate on solutions that will drive excellence in manufacturing. Let's work together to shape the future of our industry and elevate the standards of quality, efficiency, and responsibility.

FARSHID NAJAFI : INDUSTRY 4.0 AND SMART MANUFACTURING

Industry 4.0 marks a significant shift in manufacturing through the integration of digital technologies like IoT, AI, and big data. These innovations enable smart manufacturing systems that enhance efficiency, flexibility, and automation, while creating more adaptive and resilient supply chains.

JP GIROUX: THE STATE OF MANUFACTURING

Join EMC President Jean-Pierre (JP) Giroux to discuss Canada's manufacturing sector, current challenges, and solutions for building sustainable production capabilities.

PANEL DISCUSSION: THE FUTURE OF MANUFACTURING

A panel on the Future of Manufacturing will explore how AI, robotics, sustainability, and workforce transformation are shaping the industry's future.



CANADA'S LARGEST
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Surrey, British Columbia: A Thriving Hub for Advanced Manufacturing

- Largest share of available industrial land in the region.
- 15% of BC's manufacturing workforce, with 3 major universities fostering skilled talent.
- Unparalleled logistics infrastructure and access to international markets.

Contact Us

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Canada

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IMPACT IN BC

EMC delivers millions of dollars in value to members each year through training, skills development, and funded initiatives that help manufacturers of all kinds increase revenue while embracing best practices. For example:

- EMC's BC Youth in Manufacturing program has delivered \$202,600 in financial incentives to manufacturing companies in British Columbia
- EMC's WILWorks Post-Secondary program (SWPP) has disbursed \$3,700,000 for placements.
- EMC's Manufacturing Essentials Skills Certification Training, funded by Palette Skills, has delivered over \$70,000 in upskilling and training initiatives to the sector.

**Hire eligible
youth and
receive up to
\$3,500
per participant**

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Manufacturing**

www.emccanada.org/bc-youth



CANADA'S LARGEST
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UPCOMING EVENTS



CLIMATE ADAPTATION

A GreenMFG Event - VIRTUAL

In Part 1 of EMC's GreenMFG Network – Green Supply Chain Series, join us for an insightful exploration of the relationship between Climate Action and Climate Adaptation



HR ROUNDTABLE

VIRTUAL

Do you have some human resources questions that you don't know where to go for the answers? Join Western Canada manufacturers for an opportunity to share HR tips and tricks, on a peer-to-peer basis.



CONTINUOUS IMPROVEMENT ROUNDTABLE

VIRTUAL

An open discussion designed for Continuous Improvement (CI) professionals to share amongst their peers. Topics covered range from engaging employees in CI to metrics for measuring CI to new processes and trends.



MANUAL MATERIAL HANDLING

A National Safety Discussion - VIRTUAL

Join us to learn more about the hazards associated with the movement and storage of raw materials or finished products in, out and about the workplace.

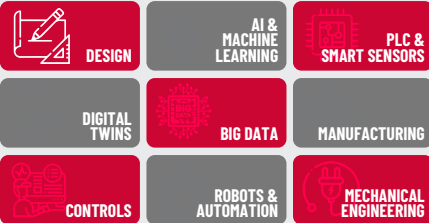
*For more upcoming events, visit
www.emcanada.org/events*

HIRE SMART MANUFACTURING GRADUATE INTERNS

WHY HIRE SFU SMART MANUFACTURING INTERNS?

Students bring new ideas, fresh perspectives, specialized training, hands-on experience, and enthusiasm to the workplace. SFU's Smart Manufacturing Master of Engineering (MEng) internship program offers continuous access to **diversely talented and highly motivated MEng students** and provides them with pre-employment education before the hiring process begins, which reduces recruiting costs. We have roughly 30-40 MEng students each year looking for 4- or 8-month internship employment opportunities. They have all taken courses in Industry 4.0, Industrial Internet of Things, Smart Factory, data analytics, robotics, automation, and manufacturing systems after receiving an engineering bachelor's degree. They are all fully eligible for internship employment in Canada.

STUDENTS ARE SKILLED IN



FUNDING

Several grant incentives are available to recruit and train **internship** students. Please contact us for details at msems@sfu.ca

SAMPLE COURSES

MSE 980 INDUSTRY 4.0
MSE 910 INDUSTRY IoT
MSE 923 SMART FACTORY I (LAB BASED)
MSE 924 SMART FACTORY II (LAB BASED)
MSE 980 MANUFACTURING SYSTEMS
MSE 713 MACHINE LEARNING IN MECHATRONICS
MSE 981 INDUSTRIAL BIG DATA ANALYTICS

SMART MANUFACTURING ADVANTAGES

Improved efficiency, worker safety, supply chain management and reduced costs and energy consumption.

TIMELINE

SFU's Smart Manufacturing Internship usually starts in September each year and ends in either December or April.

ABOUT US

Since 1997, EMC has grown to become Canada's largest manufacturing consortium, connecting manufacturers through community relationships, production, benchmarking and best practice sharing. EMC is leading the change with trendsetting, industry savvy solutions for everyday challenges and beyond.

EMC has developed a network of manufacturing experts in our ongoing commitment to offering our members the highest-quality support available. We work closely with each of our partner organizations to ensure that your business is always provided with relevant, up-to-date, services and resources. We take pride in the professional relationships we've built. We encourage our members to engage our partners to foster innovation and growth.

WHERE WE ARE TODAY

Excellence in Manufacturing Consortium (EMC) stands out today as an inclusive and diverse not-for-profit organization supporting the growth and success of more than 1,800 manufacturing companies representing over 63,000 of their employees across British Columbia. For more than a quarter-century, now as Canada's largest and most active manufacturing consortium, EMC is responsible for contributing significant knowledge, expertise and resources towards advancing the Canadian manufacturing sector.



WHAT OUR MEMBERS ARE SAYING



"EMC provides us with opportunity to network with other manufacturers within the trade, sharing ideas, talking about different challenges we face together and to network with other HR professionals about how we tackle some of those challenges. It's been a really rewarding experience.

To any of those that are considering a membership with EMC, I consider you to run and sign up for that membership."

CHASE REED

Human Resources Professional - Masonite
EMC Member

BECOME A MEMBER TODAY



CONTACT US

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