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AME-UP Program

Empowering Canada's Workforce for Sustainable Manufacturing

The Advanced Manufacturing Engineers
Upskilling Program (AME-UP) is an eight-week
intensive career accelerator designed to equip
participants with the cutting-edge skills needed
to thrive in the cleantech industry.

Whether a newcomer or a seasoned engineer looking to transition into this high-demand field, **AME-UP is the gateway to success.**



Specifics

- → Cohort Size:
 - 60+ participants
- Delivery:

 Virtual, once per week for eight weeks
- → Session Length:

 Each class is 90 mins

Participant Requirements:

- Participants have at least 3 years of experience in Mechanical Engineering, Additive Engineering, Chemical Engineering, and Software Development.
- Participant must be legally eligible to work in Canada, **and** work permit holders should have at least one year on the permit by the start of the program.

What's Included

- Eight-Week Comprehensive Program:
 Intensive technical training combined
 with real-world experience in cleantech.
- Career Support & Job Placement: The program's goal is to help 80% of participants secure jobs within six months of completion.
- Work-Integrated Learning (WIL):
 Engage with top employers in project-based learning to solve real industry challenges.
- Networking Opportunities: Build connections with key industry players, mentors, and peers who are driving the future of cleantech.

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Learning Outcomes

- **Develop** an understanding of how to create a technology development roadmap and formulate an intellectual property (IP) strategy.
- Describe key steps for technology commercialization.
- Identify essential resources for development.
- Enhance sales communication skills.
- Gain confidence in career development and job search.

Program Format

Meet Once per Week Virtually:

- 20-30 minute live presentation from a subject-matter expert
- In-depth discussion with fellow participants and session moderators
- Introduction of upcoming materials and exercise examples

Online Training:

- → eLearning readings and videos
- → Based on the material, participants have one or two optional exercises
- Participants will meet weekly with Executives in Residence (EIRs) to discuss progress and receive feedback on exercises
- → Exercises are submitted online and reviewed by either the cohort or EIRs

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Program Format

EIR Involvement

- → Weekly Feedback Sessions: EIRs will join meetings to provide tailored feedback to participants.
- Program Feedback: EIRs will communicate with course moderators on participant engagement, work quality, and areas needing additional instruction.
- Optional Office Hours: EIRs and External Guests will provide additional time for Q&A and specialized workshops to help participants with job placements

Graduation Criteria

Participation Requirements:

- Completion of the 8 weeks of the online program and WIL projects is mandatory to qualify for getting paid the \$3000 stipend and graduate.
- Employer endorsement is required for participation in the program's WIL component
- Moderators must also endorse participation in order to graduate and receive the stipend amount.
- Attend all sessions during the eight weeks of the program.
- Submit a final report to Foresight and employers outlining their involvement in WIL projects.

Technical Workshops

During the program, industry experts will conduct workshops covering various topics. These workshops provide:

- → In-Depth Learning: Focused instruction on key industry challenges and solutions.
- Networking Opportunities: Direct interaction with industry experts, allowing participants to expand their professional connections.

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AME-UP Curriculum Content Overview

| | Live Webinar (Thursday) | Online eLearning (On-Demand) | Exercises (Self-Paced) | Host |
|--------|--|---|---------------------------------|--|
| Week1 | Program IntroductionsTech dev introTRL LevelsGroup Discussion (Breakout rooms) | Program and Course Expectations Intro to Tech Dev Roadmaps | Review Course Outlines | Foresight + EIRs |
| Week 2 | Management Transitions: Understanding the Engineering Manager, Product Development Manager, and Manager of Projects roles Group Discussion (Breakout rooms) | CTO Role TRL Levels | TRL Level Analysis | Foresight + Exergy |
| Week 3 | Product Development Methodologies Discussion on Customer Experience | Product Development Methodologies Core Planning Customer Experience | Road Map | Foresight + EIRs |
| Week 4 | Intro to IP Path to commercialization | • IP • Third-Party Vendors | Intellectual Property | Foresight + Innovation Asset Collective |
| Week 5 | Intro to Resourcing and Budgeting | Scale-Up Design Creep Detailed Road Map | Road Map Details | Foresight + EIRs |
| Week6 | Tracing the EvolutionModern Landscape OverviewNavigating the Ecosystem | Budgeting Team Building Contracts | Resources Budgeting | Foresight + RXN Hub |
| Week 7 | Sales & Marketing Essentials Understanding Your Employer & Customers | Value Proposition For Your Employer | Technical Sales Presentation | Foresight + EIRs |
| Week 8 | Persuasive Communication Techniques | Working with Employers | Final WIL Deliverables | Foresight + Rhum |

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