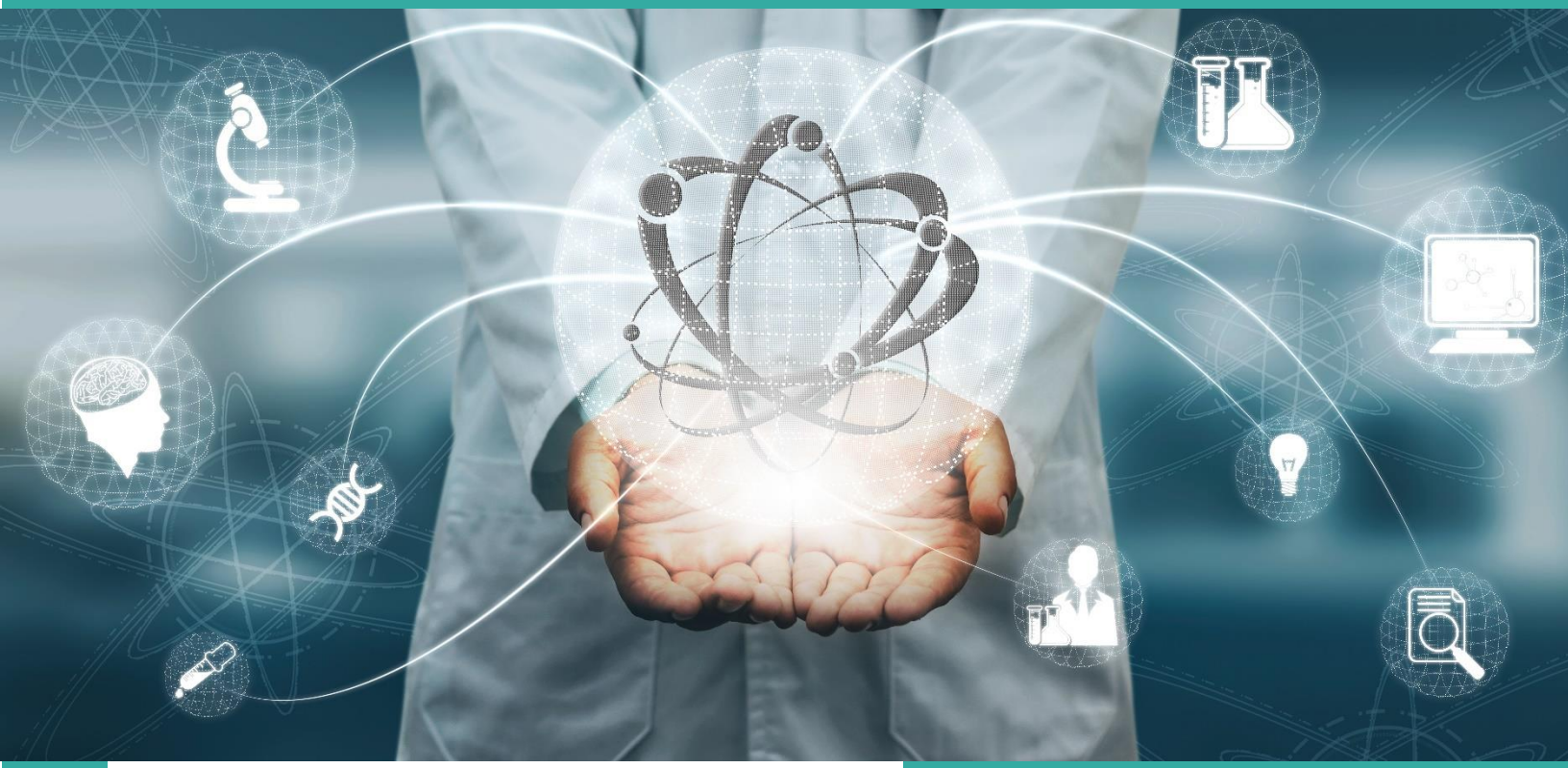
BioHubNet
Transformative Talent Development

ENGAGE Training Catalogue

Spring/Summer 2026



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ENGAGE Program Overview

"One-Stop Shop" for Industry-led Training & Mentorship for Careers in the Biomanufacturing and Life Science Sector

***5000 Training Credits is equivalent to $5000 CAD.**

Choose from curated learning pathways, specialized workshops and 60+ on-demand courses. Access professional development support and mentorship.

Training Partners

Training Academies

- catti — Canadian Advanced Therapies Training Institute
- BioTalent Canada
- CASTL — Canadian Alliance for Skills and Training in Life Sciences — adMare Academy Partner
- obio
- agilis HEALTH

Programs and Networks

- CANTRAIN
- INSPIRE
- life sciences TALENT ACCELERATOR
- CRAFT — CENTRE FOR RESEARCH AND APPLICATIONS IN FLUIDIC TECHNOLOGIES

Academic Institutions

- UNIVERSITY OF TORONTO
- Seneca POLYTECHNIC
- Toronto Metropolitan University

Curated Learning Pathways

Biomanufacturing
- Aseptic Cell Culture Basics
- CAR-T Cell Manufacturing
- Biologics (e.g. mAB) Manufacturing

Quality Control/Assurance
- QA/QC (Micro) for advanced therapies
- QA/QC (Analytical)

R&D (in development)
- Upstream Bioprocessing
- Proteomics

Regulatory Affairs
- Pharmaceutical Regulatory Affairs

Medical Affairs
- MSL Accelerator

Clinical Trials (in development)
- Clinical Trials

Entrepreneurship
- Entrepreneurship

Gain the skills and competencies required for careers in the Biomanufacturing and Life Sciences industry

20-40 hours of tailored training for BioHubNet participants, combining on-demand and expert-led workshops/ courses, plus career mapping support

BioHubNet's Learning Pathways are created by experts, benchmarked against current industry standards and follow a continuous improvement model based on feedback from BioHubNet's HQP and industry advisory committees. Each learning pathway combines the following program elements to ensure participants receive a comprehensive and industry-aligned learning experience and practical guidance to put their new skills into action

1. Gain industry-ready skills

- Hands-on training by experienced instructors
- Self-paced modules covering sector/job overview

2. Create new connections

- Live session connecting trainees with seasoned professionals
- Career advice

3. Put learnings into action

- Reflective self-assessment and action plan based on learnings

Biomanufacturing

catti | Canadian Advanced Therapies Training Institute

CASTL
Canadian Alliance for Skills and Training in Life Sciences
adMare Academy Partner

Who should take it?

This training is designed for participants who would like to understand GMP, controlled environments, best practices and manufacturing workflows used in biopharma industry to produce biologics for clinical use. It provides foundational skills to enter biomanufacturing-related roles in industry.

6-8 hours on-demand prerequisites

3-days in-person

Assessed skills & knowledge

Total: 30h

Core Learning Outcomes:

- Explain GMP/GDP concepts
- Apply ALCOA+ principles to documentation and activity recording and discuss data integrity frameworks
- Demonstrate foundational aseptic practices and contamination risk awareness, plus process-specific skills
- Demonstrate contamination control behaviors and gowning practices aligned with cleanroom expectations

[choose from 3 streams]

Aseptic Cell Culture Basics [CATTI]

Guelph, ON [flexible for off-site delivery] *

Learn how to work with MSCs (mesenchymal stem cells) and generate GMP-compliant cell banks in industry

*Requires availability of appropriate lab space

Closed systems and CAR-T manufacturing [CATTI]

Guelph, ON

Learn how to set up aseptic connections and work with closed systems platforms such as CliniMACS Plus, LOVO and G-Rex bioreactors to manufacture CAR-T cells and immunotherapies

Biologics (mAb) manufacturing [CASTL]

Montreal, QC
Vancouver, BC
Charlottetown, PEI

Learn about workflow with pilot-scale upstream, downstream units used in traditional biologics (e.g. mAB) manufacturing, and fill-finish operations

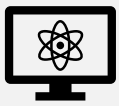
QA/QC

catti | Canadian Advanced Therapies Training Institute

Who should take it?

This training is designed for participants who are interested in pursuing quality-related careers and would like to understand the application and importance of Good Manufacturing Practices, environmental monitoring plans, risk assessment and mitigation strategies, quality control tests, structured response to OOS/OOT results and GDP.

CASTL
Canadian Alliance for Skills and Training in Life Sciences
adMare Academy Partner



6-8 hours on-demand prerequisites

3-days in-person

Assessed skills & knowledge

Total: 30h

Core Learning Outcomes:

- Explain quality requirements within GMP
- Demonstrate understanding of environmental monitoring and contamination control measures
- Document and communicate deviation scenarios in a structured and GMP-aligned manner
- Apply structured thinking to CAPA and risk mitigation principles
- Demonstrate knowledge of stream-specific QC methods

[choose from 2 streams]

QA/QC (Micro) for Advanced Therapies [CATTI]

Guelph, ON

Learn about QC microbiological release tests used for advanced therapies (sterility, mycoplasma, bioburden, endotoxin), conventional microbial identification techniques and rapid methods such as the BacT/ALERT

QA/QC (Analytics) for biologics [CASTL]

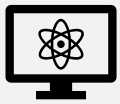
Montreal, QC
Vancouver, BC
Charlottetown, PEI

Learn about common QC analytical methods used in biologics (e.g. mAB) manufacturing, integrating QC outputs into deviation/CAPA and risk thinking

Regulatory Affairs

Who should take it?

This training is intended for individuals who would like to gain a solid understanding of regulatory activities involved during a product life cycle and/or those who are considering careers in regulatory affairs. It describes the role of Regulatory Affairs and focuses on the submission process and the legal requirements that control pharmaceuticals, biologics and medical devices.



2 hours on-demand

Online Synchronous (4h/week over 7 weeks)

Assessed skills & knowledge

Total: 30h

Learning Outcomes:

- Describe the role of the Regulatory Affairs (RA) department
- Become familiar with Health Canada regulations
- Recall the modules within a CTD, and describe the general requirements for a pharmaceutical submission
- Explain the regulatory requirements for a Drug Master File
- Implement those sections of the drug legislation in which the Regulatory Affairs is routinely involved, e.g recall, complaint handling and ADRs, SOPs, inspections, and deficiency correction
- Locate the CTA, AR, Safety reporting regulation
- Understand the regulatory pathway for different regulated products such as drugs, biologics, medical devices…and more

Regulatory Affairs [Seneca Polytechnic]

Online (synchronous)

Hands-on learning through group projects and interactive sessions

"This course gave me a great groundwork to explore careers adjacent to regulatory affairs…"

"The regulatory affairs course was very informative…"

–

Fall 2025 participants

Medical Affairs

Who should take it?

This training is intended for individuals seeking to understand the Canadian Medical Affairs and Pharmaceutical landscape, roles within Medical Affairs and/or enter the MSL profession. Combining foundational knowledge with real-world application through case-based learning, and simulation exercises, participants build core skills in scientific exchange, insight generation, and KOL engagement to become field-ready.

6-8 hours on-demand

2-days in-person

Assessed skills & knowledge

Total: 24h

Learning Outcomes:

- Explain the purpose and strategic function of Medical Affairs within a biopharma organization.
- Describe the MSL role within Medical Affairs and differentiate from Sales, Market Access, and other field-based roles.
- Identify key compliance principles, including non-promotional engagement and ethical scientific exchange.
- Describe foundational KOL engagement principles in early-career MSL interactions
- Recognize how MSLs collaborate with internal stakeholders and navigate matrix environments with professionalism and accountability...and more

"This was an amazing introduction to the whole pharma industry and had well-planned interactive activities"

–

Fall 2025 participant of mini workshop

MSL Accelerator [Agilis Health]

Toronto, ON [flexible]

Hands-on learning through short didactic sessions, interactive workshops, case-studies, role-play and simulation exercises, peer discussion and facilitated reflection

Entrepreneurship

Who should take it?

This training is designed for entrepreneurial-minded participants looking to commercialize their research, spin out a start-up or grow their venture. It provides a comprehensive overview of intellectual property, licensing, scientific and clinical validation, regulatory processes, business plans and financial forecasting, incorporation and corporate structures, financing and exit strategies.

8 hours on-demand prerequisites

3.5-days in-person

Pitch presentation in front of investor panel

Total: 40h

Learning Outcomes:

- Understand the importance of intellectual property protection
- Identify key regulatory processes
- Recognize different sources of financing and appropriate stages
- Understand how to develop a business plan
- Identify potential avenues for negotiations
- Build an effective pitch deck and gain confidence presenting to potential investors.

Entrepreneurship [OBIO]

Toronto, ON [flexible]

Hands-on learning through interactive discussions following lectures with domain experts, panel sessions, mentored pitch development, pitch presentation with constructive critics from investors

"The bootcamp formed an essential toolkit for entrepreneurs like ourselves to tackle the most challenging elements of forming a new company"

–

Fall 2025 participant

Other ENGAGE Benefits

Access special workshops & events

[*examples of upcoming and past workshops/events*]

- Microfluidics Professional Course (CRAFT) – July 2026
- Career Fair (OBIO) – March 2026
- Data Wrangling and Visualization (INSPIRE) – June 2025
- Advanced Therapies Training (OBIO/CATTI) – 2025

Access On-demand Courses

- Learn at your own pace by choosing from our catalogue of 60+ on-demand short courses
- Single sign-on integration through the BioHubNet Portal

Professional development support

- Personalized support based on your career aspirations to help determine the best use of Training Credits
- Access to BioHubNet professional development events

Monthly 1:1 Virtual Mentorship Program

- Meet a professional from the biomanufacturing or life sciences industry 1:1 for a 30-minute, virtual informational interview. Book meeting through Portal.

Travel support

- Travel grants available to cover the transport, meals and accommodation to attend in person training for eligible participants. Pre-approval required.

Program Eligibility

HQP from the following institutions – No Cost*

Eligible HQP

- Master's and PhD students (completed at least 2 semesters)
- Postdoctoral fellows
- Research Associates
- Lab Technicians

(must be from biomanufacturing/life science related STEM background)

Institutions that are part of BioHubNet CBRF Proposal and/or the HI^3 (The Canadian Hub for Health Intelligence & Innovation in Infectious Diseases) Founding University and Hospital Network

- Hospital for Sick Children
- Queen's University
- Seneca Polytechnic
- Sinai Health
- Sunnybrook Research Institute
- Toronto Metropolitan University
- Unity Health Toronto
- University Health Network
- University of Guelph
- University of Toronto
- University of Waterloo
- University of Windsor
- Western University
- York University

HQP from CBRF-BRIF Hubs/Institutions – Co-contribution model*

Other CBRF-BRIF Hubs and institutions can support participation of HQP through a co-contribution model. Under this model, a flat program fee per participant provides 5,000 Training Credits to access ENGAGE training. Please contact engage@biohubnet.ca for more information.

*Fee structure subject to change at BioHubNet's discretion.