



Collect and evaluate data that informs on development and equity-based implementation of medical counter measures

Health threat surveillance, prediction, detection

Connected & accessible patient health data

Community engagement on equitable access and policy

Precision Intervention

Create and develop innovative and equitable medical countermeasures that are adaptable and rapidly deployable

Deep immunoprofiling

Next-gen vaccines, therapeutics and diagnostics

GLP, CL3, GMP capacity

Clinical trial access



Design, develop, and implement next-gen biomanufacturing technologies to accelerate scaleup production

Cell-based & cell-free digital and automated bioprocess

Bioanalytics

Nimble scale-up capacity

Biomanufacturing workforce-ready talent training

Microcredentials & upskilling/reskilling curricula

Immersive hands-on industry training

Commercialization and entrepreneurship leaders





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Canada-US cross-border surveillance and detection of emerging health threats & supply chain management

PRECISE

Development and deployment of scalable diagnostic platforms



Canada-wide primary care clinic and ER departments alert system network with access to real-time samples for faster development of medical countermeasures



Al-enabled digital research infrastructure connecting interprovincial hospital clinical data in real-time - world's largest repository of linked clinical and imaging data



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- Next-generation mucosal vaccine platform with targeted delivery and immune response
- Next-generation engineered mAbs with precision binding affinity and targeted delivery (prophylactic/preventative and therapeutic applications)



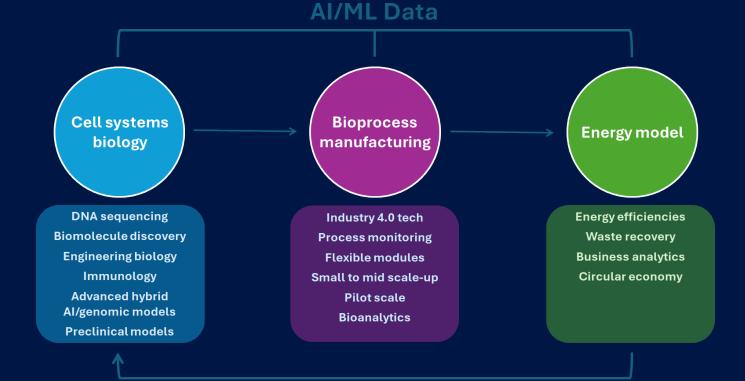
Process
Innovation

Design, develop, and implement next-gen biomanufacturing technologies to accelerate scaleup production

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Academia-industry co-owned and operated space