

PARTNERSHIPS

Transdisciplinary and intersectoral partnerships are at the heart of the TransMedTech Institute scientific strategy

Founding institutions



- Canada First Research Excellence Fund
- Ministère de l'Économie, de la Science et de l'Innovation, Québec
- Fonds de recherche du Québec
- Office of the Chief Scientist, Québec
- MEDTEQ
- Univalor
- Fondation du CHU Sainte-Justine
- Fondation de Polytechnique
- Jewish General Hospital Foundation
- Fondation Mélio
- Université Aix-Marseille
- IFSTAR
- CDRIN
- Innovitech
- Boston Brace
- Medtronic
- Siemens
- Zimmer Biomet
- Technoparc Montréal
- Centre of Excellence on Partnership with Patients and the Public
- National Scoliosis Foundation
- Scoliosis Research Society
- Coalition priorité cancer au Québec
- MIMO Study Group
- Q-Croc
- AlterGO
- and several other organizations in the process of joining



TOGETHER FOR A HEALTHY FUTURE

Information

Carl-Éric Aubin, P.Eng., PhD
 Professor & Chief Executive and Scientific Director, Montreal TransMedTech Institute

carl-eric.aubin@polymtl.ca
 1 514 340-4711 # 2836
 transmedtech.org



BIOMEDICAL ENGINEERING
 MEDICAL TECHNOLOGIES

Innovative technologies co-developed in an interdisciplinary partnership targeting better diagnostic and treatment of widespread complex diseases:

- Musculoskeletal
- Cardiovascular
- Cancer

MISSION

The mission of the TransMedTech Institute is to develop next-generation medical technologies for complex diseases such as cancers, cardiovascular, and musculoskeletal disorders.



COCREATION

The TransMedTech Institute is a transdisciplinary and intersectoral open innovation ecosystem, or living lab.

This model collectively involves researchers, students, physicians, caregivers, industries, policy-makers and patients in the rapid generation of ideas for innovative technology solutions and approaches to healthcare delivery. It is also designed to accelerate the processes of development, clinical validation, and transfer to the healthcare system.

This participatory innovation platform promises better matching of technology solutions to the needs of healthcare users.

OBJECTIVES

- Promote collaborative transdisciplinary and intersectoral research as well as innovation and creativity, via the living-lab approach
- Accelerate technology transfer and their implementation in the healthcare system
- Ensure that research results in significant societal and economic impacts
- Establish international networks and partnerships
- Attract and train next-generation highly qualified persons with an accent on diversity
- Develop a medical-technology showcase and centre of attraction

STRATEGIC AREAS

| | MUSCULOSKELETAL DISORDERS | CARDIOVASCULAR DISEASES | CANCERS |
|--|---------------------------|-------------------------|---------|
| REHABILITATION TECHNOLOGIES | ● | | |
| BIOSENSORS AND MEDICAL MICRODEVICES | | ● | ● |
| PROGNOSTIC TESTS FOR PROGRESSIVE PATHOLOGIES | ● | ● | |
| MINIMALLY INVASIVE TREATMENT DEVICES | ● | ● | |
| IMAGING, LASER THERAPIES, BIOPHOTONIC PROBES | ● | ● | ● |
| NANOROBOTICS AND THERANOSTICS TECHNOLOGY | ● | ● | ● |
| MULTIMODAL INTERVENTIONAL IMAGING | ● | ● | ● |