

THE INGENIUM CENTRE MEDIA GUIDE

Quick Facts: By the Numbers

- The Ingenium Centre is a four-story, 36,000 m² facility
- The building will house:
 - 2 million 2D artifacts such as archival materials and photographs
 - Over 85,000 3D artifacts including locomotives, boats, cars, and medical equipment
 - 12 Locomotives & 10 pieces of rolling stock, including the **1201 Locomotive** – one of the largest objects in the collection – which weighs 185 metric tons (410,000 pounds)
 - 177 cars
 - 190 bicycles
 - 6000 Agricultural artifacts
 - 4000 Domestic Technology artifacts
- The building features 9 environmentally controlled reserve collection spaces
- The new building is a \$ 150 million project

Project Overview

Ingenium – Canada's Museums of Science and Innovation is moving their collection into its new home next to the Canada Science and Technology Museum.

The Ingenium Centre is so much more than a collections storage facility. It will ensure that Canada's Science and Technology Collection is preserved for generations to come and is made more accessible to Canadians than ever before.

Designed to bring Ingenium's diverse teams together under one roof, the facility will bring the corporation's vision of creativity, curiosity, and collaboration to life. It will provide Ingenium with a platform from which to share Canada's incredible stories of innovation and discovery with the world.

- **Physical access to the collection** will be available via guided tours of the collection. People will also have the option of making an appointment with collection and research staff to see the objects.
- **A modern library and archives** — open to the public and accessible to users worldwide — will offer a rich array of rare books and other resources, ideal for researching the history of science, technology, agriculture and food in Canada.
- **A Research Institute** in the centre is designed to allow for a variety of collaborative projects linked to the collection for staff, visiting scholars, students, and guest curators.
- **A Digital Innovation Lab** in the centre will use 3D, AI, and virtual and augmented reality to support initiatives that increase access to, and interest in, Canadian content at home and around the world.

Moving the Collection

Artifacts have already started to move into the Ingenium Centre, but the relocation represents a multi-year undertaking that involves all aspects of managing the collection, as well as the expertise of numerous curators, conservators, and artifact handling experts.

From medical equipment and vintage cars to a cutting-edge magnetized target fusion device, these objects —emblematic of Canadian ingenuity — must be meticulously catalogued and safely packed before moving to their new home.

Building Features

Equipped with proper, mobile racking and shelving, the Ingenium Centre will provide a controlled environment to protect the artifacts for the benefit of many generations to come, designed to properly house artifacts made of materials such as plastic, wood, paper, textiles and ivory.

On the building's modern exterior, three prominent, coloured fins — green, blue, and red — are symbolic of Ingenium's three national institutions: the Canada Agriculture and Food Museum, the Canada Aviation and Space Museum, and the Canada Science and Technology Museum.

Inside, mobile compact storage solutions will optimize the available space, and tall ceilings will allow for maximum vertical storage.

The Ingenium Centre was carefully designed to be as energy efficient as possible thanks to photovoltaic windows which will produce energy to power portions of the building, but will also reduce the heat gain in the building.

The Research Institute

One of the unique spaces within the Ingenium Centre will be the Ingenium Research Institute, which will provide the facilities for collaborative and individual projects related to the collection, conservation and preservation techniques, citizen science, and visitor studies. Through bold engagement and worldwide collaborations, the Institute is the heart of discovery and innovation, engaging researchers, educators, and the public in new and creative ways.

It will host an inclusive fellowship program and practicums for university and college students at all levels, as well as digital and media labs, collaborative spaces to put research into practice by making use of cutting-edge digital technologies and new media.

An artifact examination room for hands-on research, symposia, and seminars on material culture, open to researchers

- Library and archives with work spaces and resources for researchers
- Extensive online collection with API foundation for application in the Research Institute and for worldwide users

The Digital Innovation Lab

There are currently plans to create a Digital Innovation Lab, which will take Ingenium's collection beyond the physical walls of the Ingenium Centre and support initiatives that increase access to, and interest in, Canadian content at home and around the world.

We hope that the lab will enable users to develop new approaches in digitization, 3D modeling, visualizations, games and game engines, and augmented, virtual, and mixed-reality applications.

Corporate Spokespeople

- Christina Tessier, President and CEO (English/French)
- Fernand Proulx, Chief Operating Officer (French/English)
- Gordon Perrault, Director of Conservation (French/English)
- Anna Adamek, Director of Curatorial Division (English/French)

Media Contact

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About Ingenium – Canada's Museums of Science and Innovation

[Ingenium](#) celebrates the innovative spirit of Canadians by telling the stories of those who dared to think differently. Inspired by the power of ingenuity, Ingenium encompasses three national institutions: the Canada Agriculture and Food Museum, the Canada Aviation and Space Museum, and the Canada Science and Technology Museum. These three museums are places where the past meets the future, with spaces where visitors can learn and explore, play and discover. Ingenium continues to evolve — the brand new [Ingenium Centre](#) houses Canada's science and technology collection, a research institute, and a digital innovation lab, all designed to protect priceless Canadian heritage artifacts for the benefit of many generations to come. Beyond the physical walls of its museums, Ingenium's engaging digital content, outreach programs and travelling exhibitions serve to educate, entertain, and engage audiences across Canada and around the world.