### What is civil engineering?

Civil engineers create the infrastructure of modern society-from roadways to water management to the buildings we live in. Environmental engineers ensure sustainable development of water, land, and air resources while minimizing impact on our environment, climate, and public health. Geotechnical engineers study the behaviour of soils under the in uence of loading forces to stabilize foundations. Water resources engineers quantify and manage components of the hydrologic cycle such as precipitations, river ows, and groundwater dynamics. Structural engineers conceive, analyse, design, and construct buildings and bridges capable of resisting loads arising from internal and external forces. Transportation engineers plan, design, build, operate, and maintain transportation systems ensuring the safe, e cient, and convenient movement of people and goods.

## Is this program for me?

Civil engineering provides students with a strong foundation in math, chemistry, and physics that can be applied to solving a wide range of problems. The complex challenges faced by civil engineers require interdisciplinary solutions and strong communication skills for related elds such as nancial engineering and the public health sector.

There are opportunities for students to spend a semester at a university abroad, or to obtain in-depth practical and professional experience by participating in the Engineering Internship Program. Minor programs are available in areas such as construction project management, environmental engineering, management, and so ware engineering.

## Why McGill?

It's an exciting time to be in the Undergraduate Program in Civil Engineering at McGill. As the world population and urban areas continue to grow and as natural resources become more limited, the role of civil engineering has never been more vital. Through their work in developing solutions to these global challenges, civil engineers are leading major changes in energy, transportation, water management and treatment, sustainable construction and materials, and adaptation to climate change.

# How d I apply?

Admissions information:

www.mcgill.ca/undergraduateadmissions/apply

# What can I do when I graduate?

Civil engineering graduates use and develop modern technology to meet the needs of our changing society. Concerns for environmental quality, climate change, energy conservation, infrastructure restoration, waste reduction, and public safety now shape the role of civil engineers. As a result, civil engineers work in a variety of elds, including construction, transportation, alternative energy, manufacturing and processing, material science,

nancial services, and municipal engineering. Their problem-solving and communication skills make civil engineers excellent consultants, entrepreneurs, managers, and executives.

Recent graduates from the program have gone on to careers in a variety of industries such as:

### WSP

Transportation Planner

### Inspec-Sol Geotechnical Project Coordinator

**SNC-Lavalin** Jr. Structural Engineer

Hatch Information Manager CIMA+ Project Engineering-Water GBI Project Manager

# ade ae e

The Faculty of Engineering provides several opportunities to participate in a variety of clubs, activities, and student government. Below are a few groups students can join to connect with others and enhance their lives outside of the classroom:

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