Connecting People and Places

Buildings





Are the buildings we design today ready for the complex challenges of tomorrow?

URBANIZATION. CLIMATE CHANGE. SUSTAINABILITY.

Can the buildings we design today address solutions to the problems of air pollution, noise, greenhouse gas emissions, overcrowding? Can we design buildings that minimize risk and are that are resistant to costly damages throughout their lifecycle? Can the materials, technologies and processes we use today across a building's lifecycle impact future generations?

Our building experts understand the challenges we all face and the complexities associated with designing and delivering services for all types of buildings across our unique and ever-changing Canadian landscape. A world-leading consultancy, we have successfully delivered some of the most spectacular and iconic buildings projects in Canada and around the world.

We tackle these challenges with a whole-project approach. More than just experts in buildings, we are complemented by a wide-array of services including civil engineering, urban planning, environmental science and planning, landscape architecture, and transportation and traffic engineering. With this breadth of talent and in-house experience, our team is able to anticipate, quickly identify, and solve the many technical challenges we encounter daily on our projects; our firm's diverse mix of projects and personal experience are drawn upon to provide valuable insights into the design, construction, and delivery processes.

Integrated design team

With strong core services, we also provide a wide range of specialty services across the building life cycle – forming teams that are able to deliver solutions tailored to our client's specific needs.

Local expertise, global depth

With experts in over 150 offices across Canada, we are part of global team that delivers iconic buildings around the world.

Simple to complex

We can do anything. From the tallest buildings to the smallest of projects, we help our clients find value no matter the complexity of their project.

Delivering on all project procurement models

Infrastructure funding has changed and with that, so have the methods projects are procured and delivered. From Design-Bid-Build to Public-Private Partnerships, we understand the intricacies of navigating through this landscape and are the engineering partner-of-choice.

Our commitment to sustainability

Beyond living this commitment, we deliver trend-setting sustainable buildings to benefit future generations.

Future ready thinking

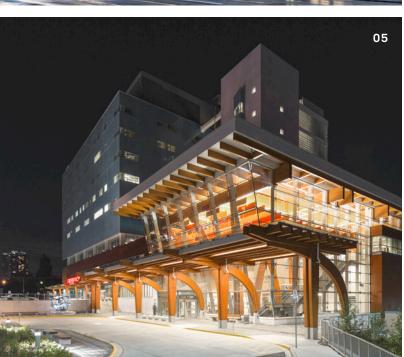
Mindful of the growing awareness related to issues such as diminishing resources, global warming, changing demographics and advancing technologies, our client interactions focus on today's reality as well as future requirements.













1,700

Buildings Professionals across Canada

Best Services Engineer (World Architecture 100)

of Canada's top 100 Infrastructure projects

500+

LEED® Certified **Projects across Canada**



Main Services

BUILDING SCIENCES

Enclosure engineering façades and roofs

Property condition assessment

Condominium and strata assessment

Repair and renewal

Forensic and dispute resolution

Recommissioning

MECHANICAL & ELECTRICAL ENGINEERING

Heating, ventilation, air conditioning (HVAC)

Building automation systems (BAS) and controls

Electrical service and distribution

Renewable energy technologies

Emergency and standby power

Plumbing design and engineering

Lab and medical gas systems

Tenant fit-out

PROJECT MANAGEMENT

Pre-development and development services

Program and project management

Strategic advisory services

Commercial management

Project readiness

Construction services

Engineering and design management

STRUCTURAL ENGINEERING

New structures

Additions and renovations

Value engineering and peer review

Security and blast design

Structural glass design

Seismic engineering

Wind engineering

Wood and timber engineering

SUSTAINABILITY & ENERGY

Sustainability strategy

Green building benchmarking

- LEED, GRESB

Building performance

Measurement and verification

Commissioning

Net zero

Energy management

Facility management

WELL Building Standard

TELECOM & TECHNOLOGY

Access control systems

Emergency communications systems

Network systems

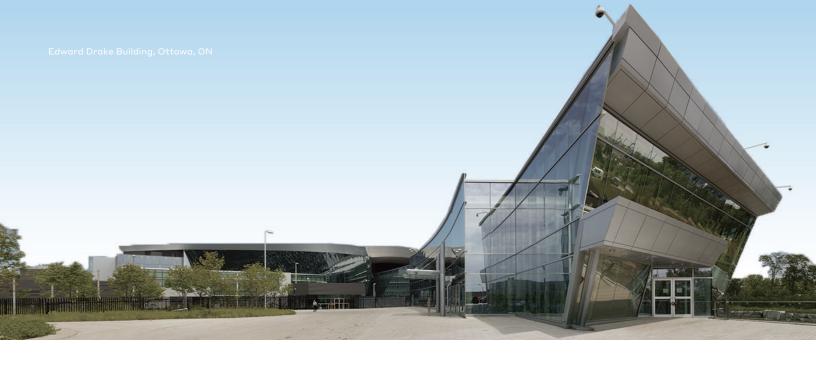
Physical and electronic security

Surveillance systems

Structured cabling systems

Telecom infrastructure design

Wireless infrastructure implementation



Specialized Services

BIM

Parametric modeling

2D/3D modeling for design support

Simulation, design validation and review

Multi-disciplinary collaborative work processes

FIRE PROTECTION ENGINEERING

Fire and building code consulting

Sprinkler design

Fire alarms and security

FOOD SERVICE DESIGN

Auditing, strategic planning and budget estimates

Food service planning

Refrigeration and exhaust system design

Procurement management

Laundry and waste management

LIGHTING STUDIO

Architectural lighting design

Exterior façade lighting

Landscape and site lighting

3D computer modeling, rendering and analysis

Lighting control design and programming

SECURITY

Threat and risk assessment, security audit and program planning

Design and implementation of architectural, physical and electronic mitigation measures

Organizational integration of security

Project management

Sectors

Commercial

Cultural

Education

Government

Healthcare

High Rise

Hospitality

Industrial Buildings

Master Planning & Urban Development

Mission Critical Facilities

Residential

Retail

Science & Technology

Sports & Stadia

Tenant Interiors

Transport Buildings

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WSP is uniquely able to deliver an integrated design package across the building lifecycle – one that both satisfies current needs of our clients and is Future Ready.

Terry Tommason

Senior Vice-President, Buildings, WSP



WSP™ is one of the world's leading professional services consulting firms. We are dedicated to our local communities and propelled by international brainpower. We are technical experts and strategic advisors including engineers, technicians, scientists, project managers, planners, surveyors and environmental specialists, as well as other design and program management professionals. We design and deliver lasting solutions in the Buildings, Transportation, Infrastructure, Environment, Geomatics, Energy, Resources and Industry sectors as well as project delivery and strategic consulting services. With over 8,000 talented people across Canada and 42,000 globally, we engineer projects that will help societies grow for generations to come.







