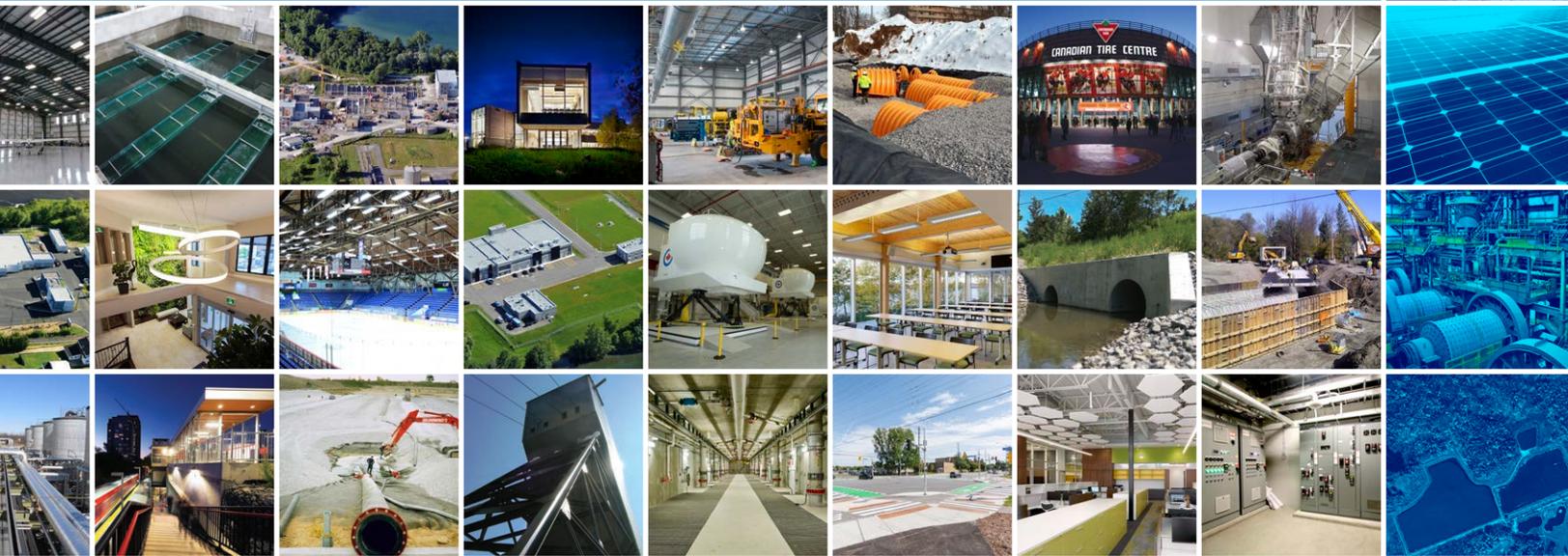




Engineers · Architects · Planners



Our **Corporate** Numbers

Founded in

1955

100%

Employee-Owned

Projects Completed in

78

Countries

80%

Business from Repeat Clients

100%

Canadian



Who We Are

Founded in Ottawa in 1955, J. L. Richards & Associates Limited (JLR) is a Platinum Club Canadian Best Managed company that provides exceptional **engineering, architecture, planning, and project management** services to clients in both the private and public sectors.

With offices across Ontario, all staffed with a diverse team of engineering and design professionals, JLR stands out in the industry due to our uniquely collaborative approach. On every project, we work as a team to provide our clients with the **quality, service, and value** they deserve.

Another important distinction that sets JLR apart is our organizational structure. We are a **completely Canadian** company, entirely owned and operated by our employees. This structure ensures that, no matter who our clients connect with, they'll be met with a level of care that only a company of engaged **employee-owners** can provide.

No matter the size or scope of your project, JLR has the experience and expertise to deliver **holistic** designs and **high-performing** built projects that meet your needs.



1. Vale Thompson Mill Grinding Circuit - Thompson, MB

2. JLR Sudbury Office - Sudbury, ON

3. Ottawa International Airport - Ottawa, ON

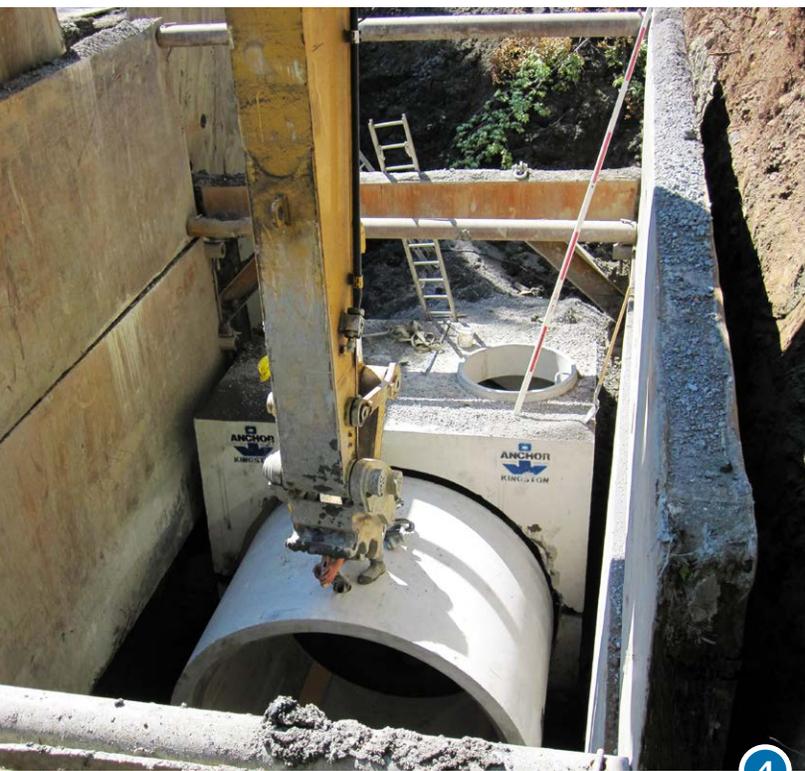
4. Sandridge Road Combined Sewer Overflow Storage and Conveyance - Ottawa, ON



Any Project, Any Size, Anywhere

With projects completed in over 78 countries around the world, we can safely say that **JLR's experience knows no bounds**—but that doesn't mean that we're only interested in large-scale international opportunities. As an adaptable team with expansive project experience, we're prepared to take on any challenge that our clients can throw our way.

Large or small, near or far, simple and straightforward or considerably complex: we want to know what projects you're planning. Whether you need extensive multidisciplinary manpower or a lean team for a focused opportunity, **JLR has what you're looking for.**



Masters of Multidisciplinary Delivery

Our competitors are increasingly seeing the value of integrated building design. Meanwhile, our firm can pride itself on being one of the **pioneering proponents of integrated multidisciplinary design delivery.** Since 1955, JLR has offered our clients access to an unmatched selection of in-house design disciplines. Our early advocacy of integrated design has allowed us to develop **decades of experience in holistic design** that you won't find anywhere else.

Our firm is equipped with extensive teams of **civil, electrical, energy systems, mechanical,** and **structural** engineering staff, who are complemented by our exceptional **architecture, planning,** and **project delivery** teams. This diverse makeup is what makes JLR a leader in collaborative design delivery. With all key disciplines in house, we can provide our clients with an integrated approach to their projects from conception to completion.



Connected to Your Community

Our firm has evolved immensely throughout our long history, but there are some key aspects of our approach to business that have remained the same. We have always felt strongly that **local insight** and **strong community presence** are key to exceptional project planning and impactful client investment.

No matter where your project is located, we are willing to go the extra mile to understand the intricacies of the area and how they impact your plans. With seven offices across Ontario and an extensive network of industry experts at our disposal, we can offer all clients the **expertise of a large firm with the personal touch of a mom-and-pop operation.**

Our **architects** and **engineers** work together in concert. The strength of our integrated team is what allows us to deliver **truly exceptional building design.**

Buildings



What We Do

Our integrated buildings team has delivered successful designs for diverse buildings around the world, ranging from small, simple structures to expansive, multi-facility campuses. We can easily adapt our approach to deliver designs focused on occupants, process, or both. We have the **expertise to tailor your facility to any function**, no matter how unique your needs are.

New construction projects, expansions, retrofits, and specialty spaces—we see every project as an exciting challenge, and we're ready with the right solutions.



Integrated Advantage

Our engineers and architects work together in concert, offering one another **invaluable insight** and **nuanced understanding** of what your space needs to achieve.

Having our integrated multidisciplinary team on your project team means you benefit from a **forward-thinking approach** to how your building looks and functions.

1. Northern College Integrated Emergency Services Complex - South Porcupine, ON
2. Brantford Environmental Services Administration Building - Brantford, ON
3. Aquatria Retirement Home - Casselman, ON
4. Vale Living with Lakes Centre - Sudbury, ON
5. Air Mobility Training Centre - CFB Trenton, ON



4

High-Performance Solutions

Building owners today have access to more options than ever before to enhance the performance of their spaces through **economical solutions**. Our integrated team will work with you to understand your goals and outline opportunities to increase occupant comfort and decrease operational costs, without compromising on **durability, reliability, comfort, or maintainability**.



5

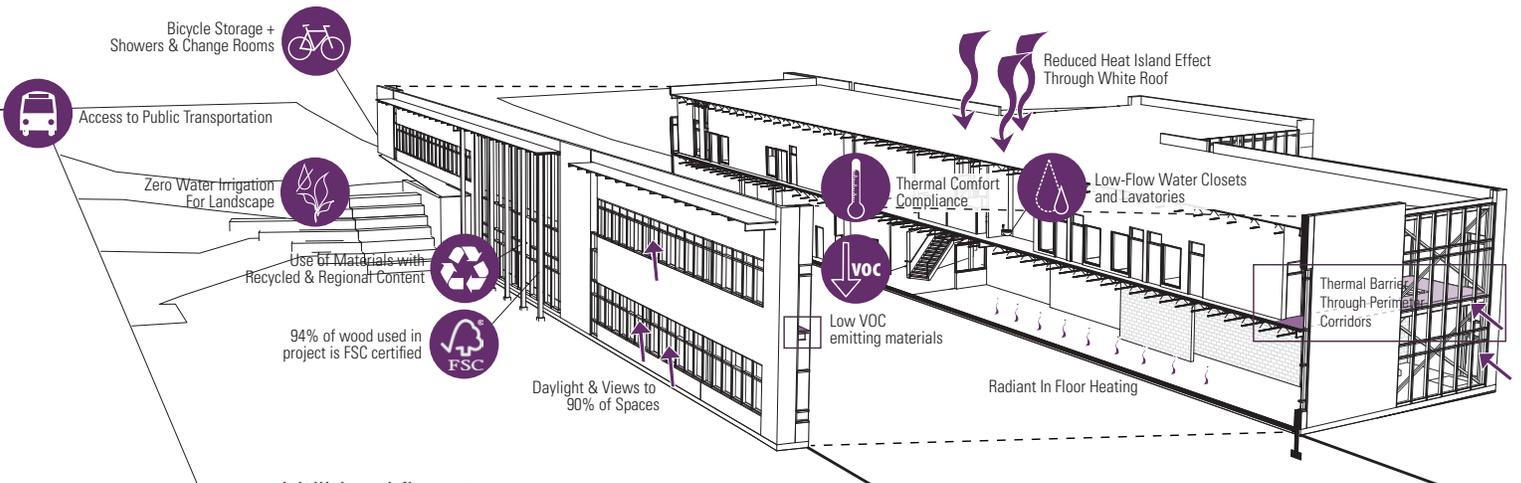


3

Project Delivery Pioneers

JLR has been a multidisciplinary firm since the day we opened our doors, making us one of the first proponents of truly integrated design and project delivery. By operating as a **one-stop-shop for small and large scale building design**, we can ensure that all disciplines that should be involved in your project are at the table together from day one.

This multidisciplinary methodology and unmatched expertise in integrated design not only results in robust and effective solutions, but also allows us to **save you time** and offer **unmatched value** on every project.



Utilities Kingston Operations Centre

What We Do

• We offer a full suite of services to public and private sector clients in order to develop solutions that work. Our firm is equipped with experienced teams that are ready to tackle any civil, municipal, transportation, land development, water resource, GIS, or planning project.



Municipal

Engaged in Your Community

• Our staff don't just work in your community—we live there too. Our integration and active involvement in our communities is what allows us to truly understand what our clients need today and where they want to go tomorrow.

• With offices across Ontario and a robust network of local experts with key **community insight**, we're perfectly situated to provide your projects with the advantage of **local presence and authentic engagement**. We work closely with your team and stakeholders in your area to develop a comprehensive understanding of your infrastructure, its end users, and their diverse needs.

• This process provides our team with the **nuanced local knowledge** we need to deliver designs that work well for you today and that both anticipate and accommodate your objectives for the future.



Strategic Solutions

• We provide you with a dedicated multidisciplinary team at the outset of your project that is assembled with your specific needs in mind. This responsive and collaborative approach to project delivery gives us an unmatched ability to deliver **integrated solutions** and **successful project outcomes**.



2



3



4



5

Our Approach

⋮ When we take on a municipal project, our first priority is to understand your needs and objectives. We use that understanding to develop plans and **robust solutions** that work for you today, and anticipate your needs in the future.

1. Fisher Avenue and Dynes Road - Ottawa, ON
2. Kanata Town Centre Stormwater Management Facility - Kanata, ON
3. Bridlewood Subdivision - Ottawa, ON
4. Nepean Creek Culvert Renewal - Ottawa, ON
5. Prince of Wales Box Culvert Replacement - Ottawa, ON

Innovative Energy



1

What We Do

Our team of energy system experts has been involved in groundbreaking, large-scale projects that have helped **set the bar for sustainable development**. With this unmatched experience in renewables and energy systems engineering, and the support of our extensive team of discipline-specific specialists, our Innovative Energy group has the insight and experience to see **solutions that you may never have even considered**.

We support retrofitting and new construction projects, and we develop solutions for diverse renewable energy and power supply opportunities. We also offer adaptable advisory services, as well as bespoke energy innovations for clients in the municipal, institutional, mining, commercial, and industrial sectors.

Economic Advantage

There's a reason why diverse companies across countless sectors are investing in energy savings, renewable energy, and future-proofing—it has an **undeniable impact on their bottom line**. Our experts understand the energy market and can adapt their approach to support smart capital spending, identify funding opportunities, support energy planning, and ensure your project results in an impressive return on investment.

Energy efficiency is an **affordable reality** that you can take advantage of today.



2

1. Penn Energy Hamilton Solar Farm - Coburg, ON
2. Energy Audit Site Visit (Source: NREL)
3. Coleman Mine Main Exhaust Fan - Sudbury, ON

Cohesive & Customized Services

Thermal Energy Options

There are abundant options available that allow you to incorporate renewable heating and cooling to supply energy to your assets.

Capturing waste heat, preheating ventilation air, incorporating thermal energy storage, or using passive solar energy, heat pumps, wood pellet boilers, sewer thermal energy, or biogas energy supplies—these are all ways you can **use your site to sustainably create and store energy.**



3

Alternative Electricity Options

Once considered too costly to implement, alternative electric technology like solar photovoltaics, wind generation, and battery energy storage systems are competitive with conventional grid energy costs today.

Better still, these renewable systems have been proven to be highly predictable energy generation assets that are reliable and that provide multiple benefits, such as peak shaving and back-up power. Whether it is for integration into a facility or for stand-alone generation, whether its multiple technologies or just one, our team can help you find the **best solution for your project goals.**

Solar Energy

Renewable Energy Planning

Energy Management Plans and Energy Strategy

High Performance Buildings

Peak Shaving and Grid Integration

Greenhouse Gas Emission Evaluations

Detailed Cost of Energy, Carbon, and Life-Cycle Analysis

Energy Audits and Carbon Reduction Roadmaps

Feasibility Studies

Building Energy Modelling

Design for Retrofits and New Builds

Owner's Engineering Advisory Services

Independent Engineering for Investors

Performance Verification

Climate Lens Assessments

Funding Opportunities and Application Support

District & Campus Energy System Design

Zero Carbon Design

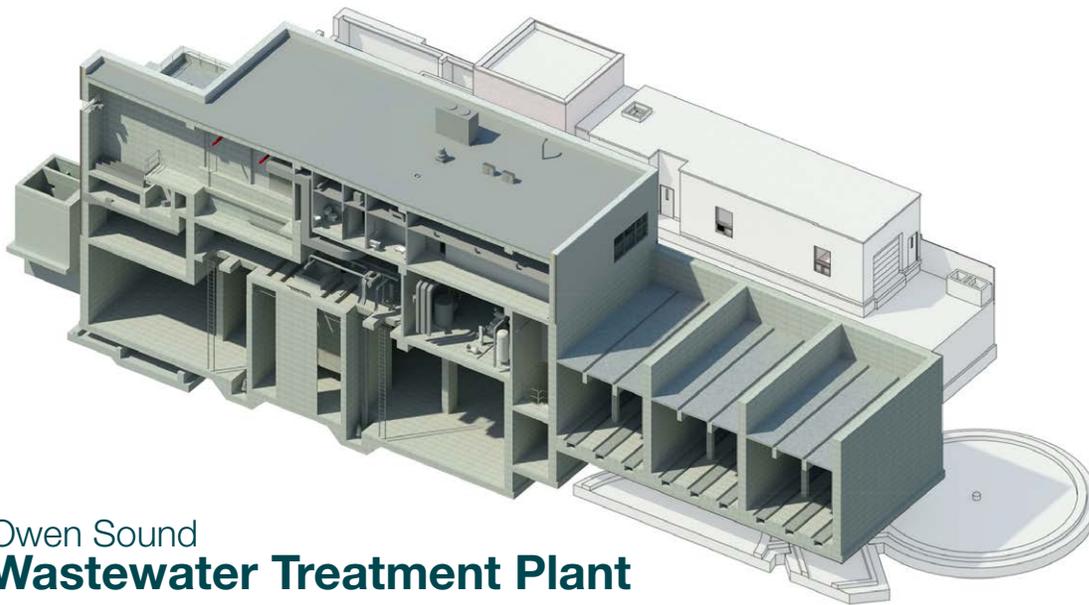


Environmental Infrastructure



What We Do

Our environmental infrastructure market leaders have their finger on the pulse of industry innovations and advancements in environmental engineering technology. If you have a **water, wastewater, or solid waste management** project on your plate, talk to our team first.



Owen Sound Wastewater Treatment Plant

Longitudinal section at UV wash and media trap

- 1. Trail Road Waste Facility - Ottawa, ON
- 2. Ravensview Wastewater Treatment Plant - Kingston, ON
- 3. Serpent River Water Treatment Plant - Serpent River First Nation, ON
- 4. Corner Brook Water Treatment Plant - Corner Brook, NL
- 5. Village of Casselman Wastewater Pump Station - Casselman, ON



In-Depth Service

Our Environmental Infrastructure team is focused on finding solutions for your water treatment, storage and distribution, wastewater conveyance and treatment, and solid waste management needs.

Our team can tackle **studies, investigations, Class Environmental Assessments, Master Plans, tender documents, construction contract administration services, and conceptual, preliminary, and detailed design.**



Adaptable Approach

In our experience, no two projects have ever been the same. Our clients have different needs, goals, available funding, sites, and existing facilities. While we are skilled at applying our experience from an array of prior projects, we know that **customized solutions and designs** are what is ultimately required.

Our approach to every project centers on working collaboratively with our clients, listening closely to your specific needs, taking the time to understand your facilities, and providing options that are the right fit for you.



Results that Resonate

The diversity of the projects we complete and the methods we use to complete them successfully are what set JLR apart. We understand that how we deliver our services is just as important as the final product.

We strive to keep our clients well informed throughout the entire project process, listening to you, your staff, and your operators about specific problems, understanding the nuances of your facilities, and applying value engineering and quality assurance on a daily basis. **You can trust us to see your project through with the same enthusiasm and effort from start to finish.**

Industrial & Mining

What We Do

Whether you've set your sights on a new mining site, or you're interested in expanding your industrial operations, you need sound infrastructure in place to get the job done. Our Industrial & Mining team provides integrated multidisciplinary services to clients in the **pulp and paper, forestry, mining, and heavy and light industrial** sectors.



Where You Work

Our firm is strategically located in close proximity to some of the largest industrial, mining, and mineral processing operations in the country, and our dedicated Industrial & Mining Group has been providing specialized solutions for diverse clients in this sector since 1974. We use that experience to develop **cost-conscious plans** that work for you, and to engineer **robust solutions** that address your needs **holistically and effectively**.

Throughout the entire project process, our team can provide local services that meet your needs, along with plans and designs that exceed your expectations.



1. Agrium Alternate Use Study - Kapuskasing, ON
2. Dufferin Aggregates Flamboro Quarry - Dundas, ON
3. Glencore Strathcona Crush Plant Conveyor - Sudbury, ON
4. Vale Lance Cooling Tower - Sudbury, ON
5. Cementation Equipment Maintenance Facility - North Bay, ON

Add Value, Cut Costs

The real value of working with JLR is not only in what we do, but in how we do it. We provide you with a dedicated multidisciplinary team at the outset of your project, which gives us an unmatched ability to **strategically sequence schedules, identify cost-saving measures, and anticipate issues** before they arise.

Our advantage is simple—we're strategically structured to save you time and money.



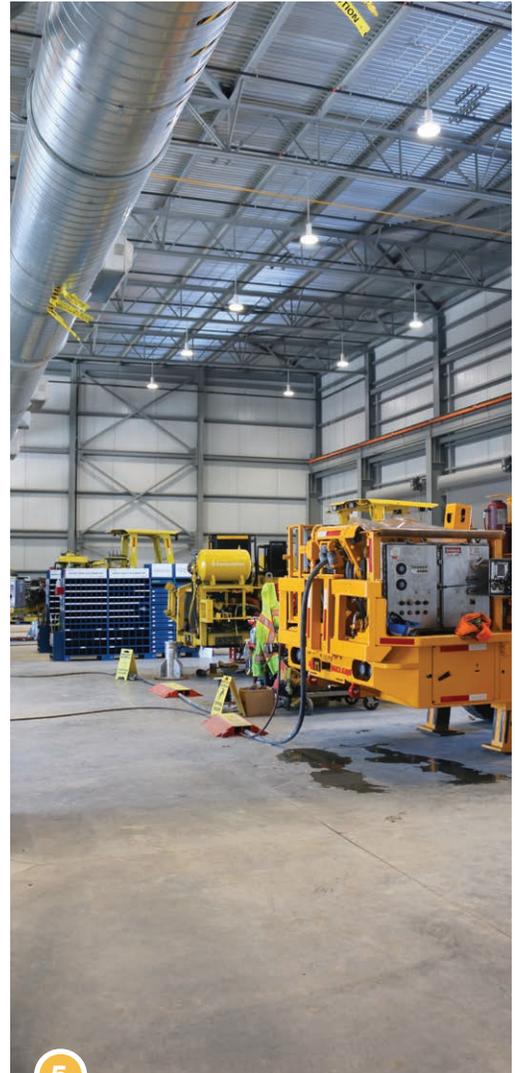
Maintenance Engineering

Issues with infrastructure and equipment cause slowdowns and stoppages, putting your production and processing at risk. That's why effective maintenance engineering and long-term maintenance planning are critical to the success of your industrial or mining operation.

Our team takes a two-pronged approach to maintenance engineering. First, we listen to the experts that work with your equipment every day to get to the heart of how they use it. Next, we practice prevention by assessing the condition of key components.

Armed with this insight, we develop intelligent designs to **improve equipment, update infrastructure, and optimize processes** while minimizing operational interruptions and enhancing safety measures.

Our approach to maintenance engineering **prioritizes your production.**



Architecture

Our architects offer invaluable insight about the human elements of building design. We consider each new project to be an opportunity to **blend creativity and artistry with utility and performance**.

Our award-winning architectural team and our comprehensive interdisciplinary approach are the keys to realizing your vision.

Civil Engineering

Our civil engineers are **experts in infrastructure**. We've built a reputation for identifying innovative solutions that provide the most value to our clients, to meet their needs now and as their communities and developments evolve. Our objective is to meet the challenges of the moment and the ambitions of the future.

Services



Electrical Engineering

You can trust our electrical engineers to utilize designs that are logically developed and customized to your specific needs. We work collaboratively both in-house and with our clients from the conceptual design phase through to detailed design, and we focus on providing design options that are **affordable to construct, economical to maintain, and flexible to expand**. Safety, reliability, code compliance and energy efficiency are key considerations for every electrical project we engage in.

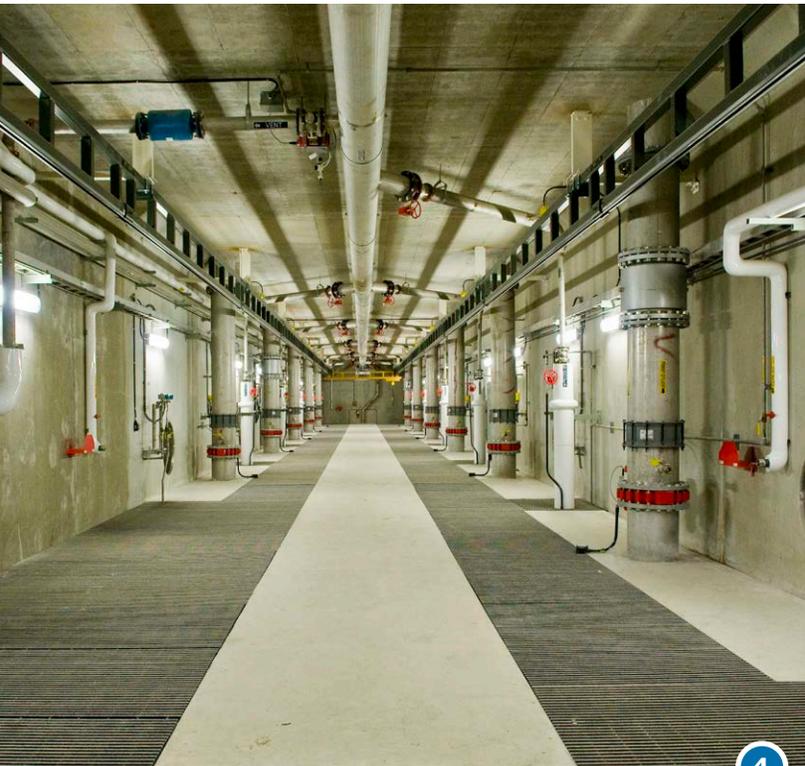


Energy Systems Engineering

JLR's energy systems engineers are at the cutting edge of efficiency innovation and low-carbon strategies. With extensive experience in renewables, low-carbon engineering, green buildings, and customized energy systems, we support our clients with **creative energy solutions that are both sustainable and robust**. Our team is adept at coordinating with other disciplines and working with existing assets to enhance efficiency and reduce greenhouse gas emissions through holistic design, supported by robust life cycle cost analysis.

Planning

Planning is the **critical starting point** of a successful project. Our experienced planners are skilled at supporting your objectives. We consider existing assets, economic constraints, regulatory limitations such as federal/provincial policy, official plans, zoning, and conservation, as well as climate mitigation, and your aspirations to ensure that the options we create are not only viable, but insightful as well. Our **innovative and adaptable** planning team responds to complex contexts with innovative approaches, and are committed to seeing our clients' plans through to fruition.



4

Project Delivery

Our Project Delivery team understands that there are many stages in the process of turning vision into reality, each more complex than the last. That's why we provide our clients with informed, efficient, and effective project managers that know how to **turn ideas and ambitions into successful, completed projects**. While excellent design is at the heart of all JLR projects, effective project management forms the foundation of their success.

1. Canadore College Parry Sound Campus - Parry Sound, ON
2. Stormwater 2D Modelling - Barrhaven, ON
3. "Sawtooth" High Density Rooftop Solar Array
4. Ravensview Wastewater Treatment Plant - Kingston, ON
5. Vale PLS Tank Repairs - Long Harbour, NL

Mechanical Engineering

Our mechanical engineering team believes that listening to our clients is key. We work closely with all of our clients to understand their needs and expectations so that we can deliver economical solutions that improve efficiency and work effectively **for them**. You can trust our team to create project plans that balance capital spending against durability, reliability, comfort, energy usage, and long-term maintenance needs. This holistic approach allows us to deliver **designs that don't compromise**.

Structural Engineering

Our structural team understands the advantage of working collaboratively at every stage of a project's progression. By coordinating closely with our clients and multidisciplinary colleagues, we develop designs that are reliable, constructible and fit to purpose. Our structural team is focused on delivering **sound solutions that support our clients' assets and infrastructure**.



5



Platinum member

www.jlrichards.ca

Architecture
Civil Engineering
Electrical Engineering
Energy Systems Engineering
Mechanical Engineering
Planning
Project Management
Structural Engineering

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