OCI Group

James Smith

P. Eng., FSRT

Environmental Engineer

OFFICE
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James provides indoor environmental assessment and investigation services for property loss claims and non-insurance building envelope failures. His experience includes analytical review of conditions for fire damage restoration, water intrusion and migration, mould development and remediation, indoor air quality assessment for restoration professionals, as well as preparation of designated substance surveys and support for hazardous materials abatement and demolition. James works directly with insurance professionals, contractors and property owners to deliver cost effective solutions compliant with the governing regulations and guidelines.

EDUCATION

University of Waterloo
Bachelor of Applied Science in Civil Engineering (Honours, Co-Op)
Waterloo, Ontario, Canada
2016 – 2021

CERTIFICATIONS

- Professional Engineers of Ontario
- IICRC FSRT
- XRF Level 1 Operator (NRCAN)
- IHSA Working at Heights
- AWP (3A & 3B) Operator
- Next Generation Leadership program by BGR Coaching & Strategic Solutions
- HCP Level First Aid Provider with BLS AED Certification/CISM certification

PROFESSIONAL AFFILIIATIONS

- Environmental Abatement Council of Alberta

PROFESSIONAL EXPERIENCE

Environmental Engineer
OCI Group
Ontario
August 2026 - Present

- Conducts assessments for the presence and abatement of hazardous building materials, including designated substances as defined by O.Reg 490/09. These assessments include initial surveys and reporting, along with consultation on containment preparation and inspection, and clearance testing for abatement sign-off.
- Evaluates fire and smoke scenes for smoke migration (smoke chasing) damages within both occupied spaces and assembly cavities. I coordinate with project stakeholders to delineate where removals/in-place cleaning is recommended to restore structures to pre-loss conditions. This includes assessments in preparation of scope and clearance in all indoor settings.
- Investigates water and mould damages via conventional moisture mapping techniques, as well as perform inspection and reporting services for fungal amplification scoping and clearance following fungal remediation.
- Assesses indoor air quality conditions in construction and occupational environments, and provide consultation services on addressing indoor settings

with airborne contamination above the applicable regulated limits and industry guidelines.
- Collaborates with the existing structural team to ensure concealed damages are addressing in indoor contamination settings, while the appropriate permitting and reconstruction documentation and specifications are being prepared.

Professional Engineer | 2025 - 2026
Engineering Intern | 2021 - 2025
Engineering Co-op/Student | 2014 - 2016, 2018 - 2020
T. Smith Engineering Inc.
Etobicoke, ON

- Coordinate with project clients on relevant costs and milestone timelines, prepare budgets and communicate expectations to ensure seamless project management.
- Perform site inspections to develop, update and review progress against scopes for the remediation of residential, commercial, industrial and institutional structures for fire, smoke, water, mould, impact, and contaminant discharge (fluid, dust, fuel, IAQ) damages, including ongoing hazardous materials abatement review and sign off.
- Conduct environmental inspections which included smoke chasing, mould scoping, use of infrared detection and XRF equipment, and collection of bulk material, surface and air samples.
- Prepare prompt formal and informal reporting solutions for inspection results, including Designated Substance Surveys (DSS), general conformance reviews for permit sign off, and progress draw reviews for CCDC contract related construction projects.
- Outline the handling, management and abatement plans for construction and repair operations in line with provincial regulations, relevant guidelines and industry best practices.
- Draft structural repair and environmental remediation drawings and specifications in Revit in compliance with the appropriate federal and provincial legislation and regulations, including the Ontario Building Code.
- Collaborate with adjusters, contractors, third party consultants, city officials and homeowners on building repair, alteration or rebuild plans, including through the application of municipal building permits.

Engineering Co-op
Duke Engineering
Huntsville, ON
2017

- Drafted new build or renovation plans for residential houses/ cottages and dock structures in AutoCAD. Assisted the project engineer with relevant site inspections, including measurement, drafting, and preparation of specifications and details
- Completed wood frame member design for lumber and timber structures through WoodWorks Sizer

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SKILLS & EXPERTISE

- Familiar with relevant construction and hazardous material regulations (O.Reg 278/05, 490/09, 347, 833) along with relevant literature (MOL, EACC) regarding handling and abatement practices
- Knowledgeable in OBC Part 9 structural design, including wood & steel framed structures
- Autodesk AutoCAD, Revit
- Woodworks Sizer
- Lieca Field 360, Cyclone Register 360