Environmental Engineering research involves the development of methods or processes to minimize the impact of human activities on the environment. Research at the School of Engineering focuses on the development of sustainable systems to prevent environmental degradation or to remediate existing environmental problems associated with industrial, agricultural and municipal activities.

Environmental Engineering Faculty Research

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- Water resources and ecosystem protection policy
- Wetland hydroecology
- Stormwater management
- Ecological flow assessment

Khosrow Farahbakhsh, Ph.D., P.Eng
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- Sustainable water management and water reuse
- Pollution prevention and cleaner production
- Knowledge translation & transfer for sustainable practices
- Balancing Indigenous and scientific knowledge

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- Exchange of elemental and reactive mercury
- Air quality policy and regulations
- Characterizing process emission factors and developing emission inventories from agriculture

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- Sustainable energy
- Urban systems environmental design
- Environmental applications of supercritical fluids
- Prion protein detection

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- Membrane process mass transfer mechanisms
- Water reuse
- Membrane module and system optimization
- Membrane applications in environmental engineering

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- Sustainable environmental technologies
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- Integrated solid waste management issues

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- Wind energy resource assessment
- Wind energy forecasting
- Environmental aerodynamics
- Improved instruments for near-surface study

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