

Mushran Siddiqui, MSc

Sustainability Analyst | Training & Project Coordinator | Economist

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PROFESSIONAL SUMMARY

Sustainability and operations professional with a background in environmental economics and engineering, experienced in carbon accounting, project coordination, and workforce operations. Delivered measurable outcomes including 53.78% emissions reduction, \$1,823 annual savings, and \$800K–\$900K avoided capital costs through energy transition analysis. Currently coordinating training and onboarding across construction projects, supporting the mobilization of over 100 workers within three months while managing compliance, logistics, and multi-stakeholder coordination across Canada.

AREAS OF EXPERTISE

SUSTAINABILITY & ANALYSIS GHG Accounting | Carbon Footprint | Cost-Benefit Analysis | Policy Evaluation | Data Analysis | Lifecycle Assessment

PROJECT & OPERATIONS Project Coordination | Training & Compliance | Records Management | Schedule Tracking | Stakeholder Communication | Documentation & Reporting

TECHNICAL Excel | R | Python | MATLAB | Minitab | Data Visualization | Monte Carlo Simulation

PROFESSIONAL EXPERIENCES

- Training Coordinator** **Jan. 2026 – Present**
BAT Construction Ltd. - Kamloops, BC
- Coordinate onboarding and training compliance across projects in multiple provinces across Canada, supporting the mobilization of 100+ workers within three months.
 - Schedule and manage project-specific training programs, ensuring alignment with safety, regulatory, and site access requirements.
 - Track certifications and maintain accurate training records using ISNetworld, SiteDocs, eRail, and NORCAT, ensuring audit-ready documentation.
 - Coordinate travel and onboarding logistics to support timely workforce deployment across projects.
 - Secured approximately \$3,000 in training funding through BC grants, reducing workforce training costs.
 - Act as the primary point of contact for IT-related issues, resolving system challenges and coordinating with external providers.
- TELUS Sustainability Research Fellow, Community Carbon Accounting Program** **Sep. 2023 – Dec. 2024**
Thompson Rivers University (TRU) - Kamloops, BC
- Conducted a full-cycle GHG inventory using ISO 14064 and GHG Protocol, identifying 52.77 tCO₂e in annual emissions.
 - Evaluated electrification scenarios using lifecycle costing and Monte Carlo simulation, demonstrating 53.78% emissions reduction and \$1,823 annual savings.
 - Quantified a 98.03% reduction in heating emissions through heat pump adoption and validated financial feasibility.
 - Identified cost-efficient implementation pathways, avoiding \$800K–\$900K in capital expenditure.
 - Delivered structured, decision-ready recommendations integrating environmental and financial analysis.
- Graduate Research Assistant** **Apr. 2023 – Dec. 2024**
TRU Bob Gaglardi School of Business and Economics - Kamloops, BC
- Performed econometric analysis of Indigenous labour markets, showing targeted employment initiatives increased employment likelihood by over 10% after controlling for human capital factors.
 - Researched AI in SDGs, labor market disparities, and political regimes' influence on GHG emissions.

Sustainability Researcher (Remote: Canada-based)

Feb. 2020 – Sep. 2024

United International University (UIU) - Dhaka, Bangladesh (BD)

- Coordinated multi-year research on sustainable agriculture, IoT systems, and optimization models.
- Developed an IoT-based irrigation system with potential 20% water savings and 25% energy reduction.
- Designed a nutrition optimization system achieving ~90% compliance with dietary targets.
- Developed a wireless sensor network algorithm improving coverage by 40% and efficiency by 20%.
- Managed timelines, documentation, and stakeholder coordination across distributed teams.

Server & Hospitality Associate

Sep. 2025 – Jan. 2026

The Den | Aramark, Kamloops, BC

- Managed transactions and supported inventory control in a high-volume environment requiring accuracy and accountability.
- Maintained clear communication with team members to support smooth operations and timely issue resolution.

Server

Red Robin Gourmet Burgers and Brews, Kamloops, BC

Sep. 2022 – Aug. 2025

- Supported efficient shift operations during peak hours by maintaining accuracy and reliability under time pressure.

EDUCATION

Master of Science in Environmental Economics & Management (MScEEM)

2022 – 2024

Thompson Rivers University | Kamloops, BC

Bachelor of Science (BSc) in Electrical & Electronic Engineering (EEE)

2013 – 2017

United International University | Dhaka, BD

PUBLICATIONS

- Siddiqui, M. et al. (2026). Work Experience Programmes and Indigenous Employment Outcomes. *Economic Papers*. <https://doi.org/10.1111/1759-3441.70005>
- Siddiqui, M. et al. (2025). FR-RANC System. *IEEE Access*. <https://doi.org/10.1109/ACCESS.2025.3592210>
- Siddiqui, M. et al. (2025). MHM-RTC Algorithm. *IEEE Access*. <https://doi.org/10.1109/ACCESS.2025.3603021>
- Siddiqui, M. et al. (2021). IoT-Based AWD System. *Sensors*. <https://doi.org/10.3390/s21186040>

CERTIFICATION, AWARDS AND RECOGNITIONS

- TRU Medal Recipient (2025): Top graduate in MSc Environmental Economics & Management.
- Featured by [CBC/Radio-Canada](#) for carbon modeling and net-zero strategy research.
- People's Choice Award (2024): Environmental economics poster, [TRU ESG Workshop](#).
- TCPS 2: Core Certified (2024): National research ethics certification, Canada.
- BSc in Electrical & Electronic Engineering: Graduated Magna Cum Laude.

CONFERENCE PRESENTATION

4th Annual Environment & Sustainability Research Spring Workshop, Thompson Rivers University, **May 2025**.

- Presented research on employment barriers among First Nations, Inuit, and Métis communities, connecting policy, equity, and sustainable development.

VOLUNTEER EXPERIENCE

Volunteer, "[Unearned Assets](#)" Conference, Thompson Rivers University, **May 29–30, 2024**.

- Assisted with planning, logistics, and participant support for a two-day equity and anti-racism event featuring Dr. Peggy McIntosh and Jesse Lipscombe, promoting inclusive dialogue and cross-cultural learning.