

KHUSHBU DHIMMAR

WATER AND WASTEWATER OPERATOR – SCADA, Sampling & Monitoring Of Water

✉ khushbudhimmar105@gmail.com ☎ +1 (226) 724-3999 📍 Ontario in [LinkedIn](#)

SKILLS & TOOLS

- **Core Engineering:** Sampling, water & wastewater treatment, groundwater systems, and wastewater collection.
- **Codes & Standards:** Safe Drinking Water Act, Clean Water Act, OWRA, OHSA, and wastewater discharge.
- **Software & Technologies:** ArcGIS, RETScreen, Office 365 Suite, SCADA, Nuology for water operations data.
- **Regulatory Knowledge:** Ontario Environmental Regulations compliance for water and wastewater safety.

WORK EXPERIENCE

Line Leader (QC)

Linsey Foods

May 2025 – Present

Ontario

- Coordinated 12+ staff daily with Production Supervisor to verify workflows and reworked products, also aligning with specifications and reducing customer complaint cases by 21% while ensuring real-time compliance.
- Performed 30+ daily operational inspections and completed 100% of compliance logs, also raising overall documentation accuracy by 19% and maintaining readiness for internal audits and CFIA food safety evaluations.
- Trained and instructed 15+ operators in grading, sorting, and packing procedures, securing 98% standard compliance while increasing throughput efficiency by 17% via corrective coaching and hands-on quality interventions.

Production Associate

Ferrero

November 2022 – November 2024

Ontario

- Inspected 500+ confectionery batches weekly for packaging defects, also preventing distribution of nonconforming goods and improving significant overall customer satisfaction index by 14% through robust QC checkpoints.
- Ensured 100% compliance with GMP, HACCP, and ISO guidelines, sustaining consistent global food safety standards and decreasing quality nonconformance notices by 18% over two-year period through regulatory audits.
- Applied structured 5S housekeeping principles to production zones, cutting waste disposal volumes by 16% and streamlining successful workflows, which increased packaging speed throughput by 12% during peak demands.

Production Associate

Cavendish Farms (Appetizer Plant)

February 2022 – August 2022

Ontario

- Transported 1,000+ food items per shift across conveyors, ensuring flow balance, reducing downtime, and achieving a 96% production line uptime rate with pallets, trays, scanners, conveyors, timers, rollers, and sensors.
- Examined 200+ food items hourly during production stages, detecting visual defects, monitoring weights, and also reducing rework by 11% overall using calipers, gauges, scales, sensors, checklists, verniers, and balances.
- Packaged over 3,000 finished products daily, verifying labeling accuracy, count precision, sealing integrity, and cutting customer return cases by 9% through printers, wrappers, sealers, counters, verifiers, coders, and feeders.

Cardboard Packaging - Assembly

Post Packaging

September 2021 – November 2021

Ontario

- Constructed 250+ cardboard packages per shift, folding panels, sealing edges, stacking bundles, and also meeting overall packaging output targets by 80% using cutters, jigs, adhesives, clamps, markers, rulers, and also gauges.
- Applied adhesive systems to 150+ packages daily, operating glue machines, checking alignment, verifying adhesion, and reducing breakage incidents by 12% with rollers, heaters, sensors, applicators, gauges, spreaders.
- Maintained workstation cleanliness with 12+ hourly checks, removing debris, sanitizing tools, clearing waste, and improving audit compliance scores by 17% using vacuums, sprays, brooms, bins, cloths, wipes, and gloves.

Lab Technician

Aqua-Air Environmental Engineers Pvt Ltd.

October 2020 – March 2021

India

- Conducted BOD, COD, TOC, and nutrient tests on 100+ water samples weekly, preparing dilutions, operating meters, verifying results, and ensuring APHA compliance with pipettes, electrodes, cylinders, titrators, charts.
- Processed 50+ soil and groundwater samples monthly, extracting samples, filtering sediments, running assays, and identifying contaminants with 98% reliability using centrifuges, filters, sieves, ovens, balances, and shakers.
- Prepared reagents and executed titrations on 200+ samples, calibrating pipettes, recording endpoints, checking duplicates, and maintaining zero lab deviations with flasks, burettes, solutions, indicators, timers, dispensers.

Wastewater Treatment Plant Operator

Keva Fragrances

June 2018 – September 2020

India

- Operated a multi-stage treatment facility with screening, grit chambers, UASB reactors, aeration units, and UV disinfection, treating 5,000+ m³ wastewater daily using blowers, pumps, tanks, diffusers, mixers, and agitators.

- Collected and analyzed 150+ water samples monthly, preparing reagents, calibrating equipment, adjusting chemicals, and improving effluent quality KPIs by 21% using burettes, pipettes, incubators, electrodes, spectrometers.
- Performed preventive maintenance on 25+ pumps, replacing seals, lubricating shafts, calibrating meters, and reducing equipment downtime by 19% with bearings, couplings, motors, gaskets, valves, shafts, and gearboxes.

Lab Analyst (Intern)

Precitech Laboratories Pvt. Ltd.

May 2017 – June 2017

India

- Measured pH, turbidity, alkalinity, and BOD for 50+ samples daily, preparing buffers, calibrating probes, noting variations, and achieving 98% precision with electrodes, standards, probes, meters, reagents, and controllers.
- Operated spectrophotometer to analyze phosphates and chromium in 20+ samples daily, preparing standards, running blanks, verifying curves, and ensuring compliance using cuvettes, lamps, filters, solvents, graphs, diluters.
- Advised 5+ senior chemists in environmental testing, assisting with field sampling, collecting bottles, sealing containers, and documenting site conditions using kits, samplers, preservatives, logbooks, carriers, and probes.

PROJECT EXPERIENCE

Sustainability Principles and Practices

May 2022 – August 2022

- Conducted ISO 14040-compliant Life Cycle Assessment (LCA) on footwear using 5 raw material categories; quantified cradle-to-grave impacts from extraction through disposal, providing emission and energy consumption.
- Modeled hybrid shoe designs with Khadi cotton and marine plastic waste; results indicated 41% lower lifecycle emissions compared to leather-based models and established a framework for sustainable material substitution.

GIS Data Modelling (ArcGIS)

May 2022 – August 2022

- Devised land suitability models for Petro-Canada fueling stations integrating 8 spatial datasets; also proposed site allocation with SAW and P-median approaches in ArcGIS, achieving 87% location prediction accuracy.
- Applied Multi-Criteria Decision Analysis (MCDA) incorporating roads, zoning, and urban proximity; identified 5 optimal sites and improved decision-making precision by 35% compared to conventional spatial heuristics.

Solar Energy Engineering

January 2022 – April 2022

- Designed a rooftop PV system for Costco warehouse using RETScreen with KuDymond CS3U-365P-FG modules; simulated 1023 panels, tilt 36.25°, azimuth 0°, reducing annual emissions by 95% and achieving 27% cost savings.
- Optimized array spacing of 4.19m to mitigate shading losses and projected 10-year payback; also results demonstrated feasibility for scalable renewable deployment in large commercial warehouses across North America.

Lab Scale MBBR for Textile Wastewater Treatment

June 2017 – May 2018

- Constructed lab-scale MBBR with compressor-based aeration and bio-carriers to treat textile wastewater; achieved 76% BOD and COD reduction, validating process efficiency for scaling in industrial wastewater facilities.
- Benchmarked laundry balls vs bio-balls under controlled aeration; observed similar pollutant removal but bio-balls extended operational lifespan by 23%, highlighting improved durability for sustainable treatment systems.

Carbon Capture and Sequestration (Thesis)

June 2015 – May 2016

- Engineered a chemical absorption system to capture industrial CO₂ using KOH scrubbing; optimized tank-based reaction pathways and achieved 92% sequestration efficiency, producing K₂CO₃ as a value-added byproduct.
- Validated sequestration process by conducting yield analysis with 95% conversion efficiency; findings demonstrated commercial viability and supported 10 downstream product lines, reducing projected CO₂ emissions.

EDUCATION

Master of Engineering in Environmental Engineering

University of Windsor, Ontario

May 2021 – August 2022

Bachelor of Engineering in Environmental Engineering

Gujarat Technological University, India

August 2014 – August 2018

CERTIFICATIONS

- Licensed Environmental Professional – in – Training ; WHMIS - Canada Safety Training Center
- Valid Driving License ; ArcGIS Certification ; Artificial Intelligence Primer Course
- Learning SCADA: Collect, Analyze, and Visualize Data for Industrial Automation
- Certified Operator-in-Training (OIT) – Water & Wastewater Treatment
- Introduction to ESG: Environmental, Social, and Governance - LinkedIn
- Occupational Safety and Health: Hazard Communication - LinkedIn
- Occupational Safety and Health: Slips, Trips, and Falls - LinkedIn