

Sonia Q. Wang, M.Sc., EIT

Project Engineering Designer / Project Coordinator

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Greater Ottawa Metropolitan Area, Ontario

SUMMARY OF QUALIFICATIONS

- 10+ years of work experience in the **civil/mechanical engineering** field with sound knowledge of **building science/engineering** for commercial, institutional and residential buildings
- Motivated, organized Engineer in Training (EIT) with a Master's Degree, registered Energy Advisor (EA) and Quality Assurance (QA) Specialist with Nature Resources Canada (NRCan)
- Proficient in building mechanical engineering design and calculation, drawing preparation and interpretation, modelling, environmental and energy assessment, and codes and standards compliance
- Proven creative, analytical and problem-solving skills to propose professional solutions to meet clients' demands and ensure satisfaction
- Good understanding of project/program implementation, coordination and management principles, including planning, scoping, scheduling and budgeting, etc.
- Strong interpersonal and communication skills working well in a fast-paced team environment

Languages: English, Mandarin

Computer literacy: Microsoft Office Suite, Outlook, AutoCAD, Revit, HOT2000, GIS, Zoom, MS Teams

CORE COMPETENCIES

Quick learning/adaptation	Prioritization	Research/analysis
High sense of responsibility	Eager to excel	Excellent mathematics aptitude
Client service orientation	Work under pressure	Attention to detail and accuracy

WORK EXPERIENCE

Registered Energy Advisor & QA Specialist 2022

EcoPlus Services, Gatineau, Quebec

- Intensively trained, skills elevated and successfully passed four (4) qualification exams in a short period
- Assessed energy performance of homes, tested indoor air quality, mould, and asbestos of buildings
- Performed computer simulations with the HOT2000 software and prepared evaluation reports
- Explained the federal program well and communicated the house retrofit goals with clients to provide them with practical and cost-efficient advice on saving house energy, increasing occupant comfort, and improving the indoor environmental quality
- Maintained high-level service standards and work ethic and got positive feedback from clients

Environmental Professional 2021 – 2022

Englobe Corp., Ottawa, Ontario

- Carried out Environmental Site Assessment (ESA), including historical document review, stakeholders interview, site reconnaissance, soil/water sampling and monitoring well installation for due diligence, property transaction, or land lots development/redevelopment
- Prepared proposals and technical reports in compliance with regulations, standards and methodologies
- Liaised frequently with clients, interdepartmental staff, laboratories and equipment suppliers for smooth project progression and successful completion timely and within budget

Program Officer 2019 – 2020
Foreign Environmental Cooperation Center of Ministry of Ecology and Environment, Beijing, China

- Translated and interpreted foreign nations' policies and regulations, provided practical consultation on soil/groundwater contamination investigation and remediation for domestic decision-makers reference
- Developed project scope and schedules and monitored budgets to guarantee the Ministry's funding program meeting the high-quality project management principles

Engineering Assistant 2015 – 2017
Highway Planning and Design Branch, Manitoba Infrastructure, Winnipeg, Manitoba

- Assisted Phase I/II ESAs and highway construction projects in sampling, data collection and analysis, site visits, construction drawings interpretation, materials and equipment preparation, etc.
- Implemented administrative duties like preparing Request for Proposals (RFPs), assessing bidders, coordinating project participants, scheduling, documentation printing and archiving, memos, etc.

Engineering Designer / Project Coordinator / New Business Developer 2008 – 2014
CCDI Group, Beijing, China

- Conducted plumbing and fire protection system design, hydraulic calculations of building service systems and community pipeline networks according to building/municipal codes
- Developed engineering drawings using AutoCAD and prepared specifications, reports, change orders and other related project technical documents
- Worked collaboratively with project managers, architects and other engineering disciplines (structural, electrical, HVAC, LEED, etc.) for project kick-off, pipeline layout coordination, and cost estimate
- Performed watershed investigations, collected water samples, and processed water quality analytical data for proposing supply water protection and treatment solutions
- Explored and advocated innovative services to benefit clients through the integration of building information modelling (BIM) services into traditional engineering design deliverables
- Prepared marketing tools such as PowerPoint slides, brochures, videos, etc., for services advocacy

EDUCATION

Internationally Educated Engineering Academic Confirmatory Program (EGM) 2016
Civil Engineering Department, University of Manitoba, Winnipeg, Manitoba

Civil Engineering Technology Program (Completed 2nd year courses) 2014 – 2015
Red River College, Winnipeg, Manitoba

Master's Degree in Environmental Engineering 2005 – 2008
Xi'an University of Architecture and Technology, Xi'an, China

TRAINING AND LICENSE

ERS (v15.10) – Foundation Level, Energy Advisor and Quality Assurance Specialist (House/MURB) Exams 2022
Nature Resources Canada (NRCAN)

WHMIS 2015 for Workers Certificate 2021
Canadian Centre for Occupational Health and Safety (CCOHS)

Bridging Program: Skills and Jobs in Ontario's Environment Sector 2021
Ontario Society of Professional Engineers (OSPE)

Engineer in Training (EIT) 2016
Engineers Geoscientists Manitoba (EGM)