

SYED ANWAR

MCC • BES

Senior Analyst — Natural Resources Canada

Ottawa, ON | syedanwar.gis@gmail.com | 613-979-7933

PROFESSIONAL SUMMARY

Strategic real property, environmental, and investment planning specialist recognized for modernizing governance frameworks, enabling transparent capital decisions, and leading departmental processes that strengthen long-term portfolio alignment and readiness with GoC priorities. Combines policy translation, data-driven analysis, and collaborative leadership to advance departmental priorities and support executive decision-making. Committed to advancing meaningful, forward-looking work that strengthens organizational capacity and supports long-term program maturity.

EDUCATION

Master of Climate Change, University of Waterloo, ON - 2015

Bachelor of Environmental Studies (Hons), University of Waterloo, ON - 2014

Honours Environment, Resources and Sustainability

Minor: Geography and Environmental Management

Diploma of Excellence in Geographic Information Systems; Environmental Assessment

PROFESSIONAL EXPERIENCE

Senior Analyst, Natural Resources Canada

Ottawa, ON | August 2024 – Present

- Governance Modernization & Capital Planning
 - Rebuilt NRCan's BMP and capital planning process into a unified, defensible governance framework aligned with federal priorities, improving national consistency and strategic decision-making.
 - Consolidated TBS/PSPC/BGIS requirements, tiering criteria, KPI governance, and National Program logic into a standardized process co-developed with science programs, regional facility managers, and technical SMEs.
 - Led the Branch Functional Review, elevating project submissions, costing rigor, and readiness for DG/FRPC approval.
- Strategic Insight & Long-Range Investment Planning
 - Identified systemic risks, gaps, and pressures across the portfolio to support NRCan's long-term (FY25–31+) investment strategy.
 - Provided forward-looking analysis on compliance exposure, climate resilience, and impacts on science program delivery.
 - Supported senior management in anticipating funding pressures, prioritization trade-offs, and emerging risks.
- Analytics, Automation & Portfolio Intelligence
 - Implemented AI-enabled workflows (Copilot/GPT) to streamline BMP ingestion and validation, reducing manual effort and improving data quality.
 - Developed dashboards, risk visualizations, and GIS tools to support transparent prioritization and executive planning.

- Delivered enterprise decision-support products that strengthen national comparability and improve strategic oversight.

Real Property and Information Officer, Fisheries and Oceans Canada

Ottawa, ON | 6/6/2017 – August 2024

- Leadership and Strategy: Served as Acting Manager for the National Operations team, supervising employees and ensuring delivery of high-priority files despite resource challenges.
- Program Management: Designed and implemented the National Building Condition Assessment Program, securing funding and coordinating assessments for over 1,000 buildings. Improved DFO's maintenance standards towards Level 2 compliance.
- Policy Development: Translated high-level federal goals into actionable programs, including the National Waste Audit and Asbestos Management frameworks, achieving compliance with the Federal Sustainable Development Strategy.
- Risk Management: Administered budgets exceeding \$4M annually across multiple programs, reallocating resources based on shifting priorities and emerging risks and opportunities.
- Stakeholder Engagement: Cultivated trust with senior management (DGs) and external partners, ensuring alignment with strategic objectives and providing reliable support on short deadlines.
- Data-Driven Insights: Developed client-focused IM/GIS/Geomatics systems to automate data flows, enhance analytical capabilities, and save costs, adopted agency-wide for environmental reporting.

Soil Geomatics Technician, Independent contractor for Kuntz Forestry Inc.

Ottawa, ON | 9/1/2015 – 6/1/2017

- Performed QA/QC on the finalized database to produce deliverable map products, and data files with metadata records.
- Designed and continuously improved VBScript-based Arcpad 10 soil data collection program as well as executing and refining the coordination of collection, compilation, and database management to increase workflow by 4x.
- Conducted on demand, in-situ spatial analysis based on project and pedologists' needs utilizing custom developed scripts to accurately identify potential sampling sites and local landscape features.

Assistant Agricultural Resource Inventory Coordinator, Ontario Ministry of Agriculture and Food & Ministry of Rural Affairs (OMAFRA)

Guelph, ON | 4/30/2015 – 8/12/2015

- Augured and prepared soil horizon profiles for analysis. Established landscape and aerial site photography. Pioneered innovative digital soil data collection methodologies for soil renewal pilot projects in the Huron, Middlesex, and Ottawa regions.
- Researched and implemented methodologies based on DJI Phantom 2 UAV technology to assist in field data collection.
- Organized and executed the summer 2015 field data collection campaign: supervising 12 team members across Southwestern Ontario.

Junior Geographic Information Specialist, OMAFRA

Guelph, ON | 4/30/2014 – 8/11/2014, 1/2/2013 – 8/27/2013

- Produced map products for inter-departmental program requests and performed quality control checks on data collection, processing, and storage, in addition to analyzing the 2014/2013 crop data for the AgRI database.
- Coordinated extensive crop data collection campaigns within Southern Ontario. Refined in-field data collection methodologies, including software and user input protocols.
- Implemented custom digitization procedures to increase workflow by 7 times, which led to the digitization of a high precision polygon framework for Bruce and Norfolk counties.

Geomatics Technician, Agriculture and Agri-Food Canada

Ottawa, ON | 4/30/2012 – 8/24/2012

- Conducted extensive field work on farms, collecting soil and biomass samples to assist in the evaluation of best management practices in a management watershed.
- Created authoritative weekly North American soil moisture maps by processing SMOS satellite data in PCI Geomatica and MATLAB for internal and external distribution.
- Participated in the SMAPVEX12 joint field campaign, conducted by the Jet Propulsion Laboratory at NASA, Agriculture and Agri-Food Canada and other academic partners.

GIS Convergence Technician, Statistics Canada

Ottawa, ON | 9/6/2011 – 12/21/2011

- Resolved complex spatial relationships between the National Geographic Database (NGD) and the updated Ontario Road Network (ORN) to ensure accuracy of addresses and Elections Canada's administrative boundaries via MapMerger.
- Isolated and identified out-of-date road segments by processing the newly acquired GPS data and highlighting the changes for the next department, in addition to simplifying and resolving multiple database alignment issues.

CERTIFICATIONS AND TRAINING

- RETScreen Expert Certification
- Prosci Change Management Certification
- Advanced Excel Certification
- Federal Leadership Development (in progress)

REFERENCES

Available upon request