

Fazal Hussain, P.Eng., M.Eng., CRSP®
Candidate for APEGA Council

Professional Summary

Senior engineering and safety leader with over 25 years of experience protecting the public interest through regulatory oversight, governance, policy development, and the application of professional engineering standards. Extensive background in occupational health and safety, mining and energy systems, failure analysis, and safety engineering within high-risk industries. Recognized for sound professional judgment, ethical decision-making, and mentoring engineers to uphold competence, accountability, and public safety. Committed to APEGA's mandate of self-regulation, public protection, and excellence in professional practice as Alberta transitions to the Professional Governance Act.

Council Value Proposition

Brings deep regulatory expertise, strong ethical judgment, and a systems-level understanding of public-interest governance. Experienced in interpreting legislation, managing regulatory risk, and contributing to policy modernization. Offers a balanced, impartial, and analytical approach to decision-making, grounded in engineering principles and a commitment to safeguarding the public while supporting excellence in professional practice.

Governance, Regulatory, and Council-Relevant Experience

- Provide statutory oversight and independent professional engineering advice under Alberta's OHS Act, Regulation, and Code.
- Interpret, apply, and assess compliance with legislation (OHS Act, Regulations, Codes), technical standards and best practices across diverse sectors.
- Support compliance, enforcement, and prosecution processes through impartial engineering analysis, expert opinion, and defensible technical reports.
- Assess professional practice issues, systemic risks, and governance gaps affecting worker and public safety.
- Contribute to policy development, regulatory modernization, and continuous-improvement initiatives for workers and worksites in Alberta.
- Exercise professional judgment in complex, high consequential decisions involving safety, ethics, and engineering accountability.

Leadership and Professional Practice

- Lead and mentor multidisciplinary teams of engineers and technical professionals, promoting competence, ethical practice, and continuous professional development.
- Provide coaching and guidance to professional engineers and technical staff on professional responsibilities, investigative rigor, documentation, and adherence to standards of practice.
- Serve as a subject-matter expert on engineering safety, risk management, and system failures, supporting consistent, fair, and transparent regulatory decision making.

- Foster collaboration among regulators, industry, and professional stakeholders to advance safety culture and compliance.

Core Competencies

- Strategic leadership and systems thinking
- Regulatory compliance and legislative oversight (OHS Act, Regulation, Code)
- Policy and program development, modernization, and implementation
- Subject-matter expertise in safety engineering and regulatory compliance
- Stakeholder engagement, consensus development, and collaboration
- Risk management and compliance assurance.
- SME guidance for enforcement and legal proceedings
- Team leadership, mentoring, and capacity building
- International and multi-jurisdictional representation

Professional Experience

Senior Workplace Safety Engineer

Safety Engineering Team Lead / Statutory Director

Specialized Professional Services, Alberta OHS Program Delivery 2013 ... Present.

Regulatory Leadership & Governance

- Provide strategic leadership in OHS program delivery and technical regulatory oversight.
- Lead modernization of OHS legislation, ensuring alignment with organizational mandates.
- Develop effective and responsive legislation and policy proposals grounded in engineering principles.
- Lead technical reviews of the legislation, including maintenance of over 200 technical standards referenced in the OHS Code.
- Integrated regulated program delivery, including the Blaster's Certificate Program.

Technical Expertise Regulatory Compliance

- Deliver SME guidance on inspections, investigations, and regulatory compliance.
- Support investigations of serious incidents, fatalities, fires, explosions, and mechanical or structural failures.
- Peer review independent engineering opinions for regulatory and administrative proceedings.
- Evaluate variances and alternative compliance proposals as a statutory director under the OHS Act, on technical safety matters.

Collaboration & Representation

- Chair and lead multi-jurisdictional committees to ensure consistency and harmonization of regulatory standards nationally.
- Represent Alberta on national and international standards development bodies.

- Collaborate with federal, provincial, and industry partners including NRCan, AER, WorkSafeBC, and Energy Safety Canada.

Mentorship & Capacity Building

- Mentor engineers and technical staff to strengthen internal regulatory capacity.
- Develop publications, technical guidelines, and safety bulletins to improve stakeholder compliance awareness.

Safety Engineering Specialist

2008....2013

OHS Policy and Program Development

- Developed and implemented safety standards, codes, and best practices to strengthen regulatory compliance and public safety.
- Conducted inspections, audits, and risk assessments across construction, mining, industrial, and energy sectors.
- Evaluated safety management systems and recommended engineering-based improvements.
- Mentored junior engineers and technical staff in professional practice and hazard identification and management.

Mining Consultant

2007 – 2008

GijimaAst Americas Inc., Sudbury, Ontario

- Provided technical consultancy and developed mine plans, designs, and operational modifications.
- Delivered training and mentorship to junior engineering staff.

Education

- Certificate in Public Policy and Administration (In Progress)
University of Guelph, Ontario,
- Masters Degree in Engineering (Mining) 2008
University of Alberta,
- Bachelor of Science in Engineering (Mining) 1993
University of Engineering and Technology, Lahore,

Professional Designations and Affiliations

- Professional Engineer (P.Eng.) – APEGA
- Canadian Registered Safety Professional (CRSP) – BCRSP
- Member – National Society of Professional Engineers (NSEP) – USA
- Associate Member, National Academy of Forensic Engineers (NAFE) -USA
- Chair, Interprovincial Blaster's Harmonization Committee (IBHC)

- Associate Member, Drilling & Completion Committee (DACC), Energy Safety Canada
- Member, Advisory Committee, OHS Certificate Program, University of Alberta
- Technical Committee Member, ISO Standards for Autonomous Vehicles
- Technical Committee Member, multiple CSA standards
- Past Deputy Project Manager, Asia Pacific Partnerships projects in Canada
- Member, Public Policy Forum