

A searchable database of CEA member companies and their fields of specialization is available online at

CEA.ca

Reference Guide 2025

Consulting Engineers of Alberta members offer a wide range of services to assist their clients toward their ultimate goals. The following matrix provides a simple, easy-to-use guide to help clients in the initial selection of an appropriate consulting engineering firm.

Fields of Specialization

- 1. Aerospace
- 2. Agriculture
- 3. Building Science
- 4. Chemical Engineering 5. Communications/
- **Telecommunications**
- 6. Computer Science
- 7. Electrical
- 8. Energy
- 9. Environmental
- 10. Export
- 11. Fisheries
- 12. Forensic 13. Forestry
- 14. Geotechnical
- 15. Industrial
- 16. Marine & Coastal
- 19. Mediation
- 20. Mining Engineering
- 21. Municipal 22. Occupational Health

17. Materials

18. Mechanical

- 23. Petroleum Engineering
- 24. Planning
- 25. Pressure Vessels
- 27. Research
- 28. Structural Buildings

26. Project Management

- 29. Structural Other
- 30. Surveying
- 31. Temporary Works
- 32. Transportation

As the matrix shows, while engineering design is a major component of the capabilities of CEA members, they can provide advice and assistance from the financial pre-feasibility phase of projects through to completion and beyond. Farm Machinery and Equipment Farmland Resources: Survey and Improvement Works Food Processing and Storage Grains & Feeds: Drying, Cleaning, Handling, Processing and Storage Rural Planning and Development Water and Soil Conservation Engineering Architecture Building Code QP Capital Planning Fire Protection/Prevention Indoor Air Quality Registered Code Agency Repair/Restoration Roofing and Waterproofing Technical Audits Walls and Cladding Desalination Food Processing Synthetic Fibres AM/FM Broadcasting **Program Production Facilities** Terrestrial and Satellite Links TV and CATV Wireless Systems Client/Server Computational Mechanics Database Management Ergonomics Internet/Intranet Software Development Building Codes QP **Building Systems Energy Conservation** Motors and Generators Power Transmission and Distribution Registered Code Agency Residential Biomass/Wood Coat Processing/Transportation Cogeneration $District\ Heating\ and\ Co-Generation$ Electric Power Generation - Hydroelectric Electric Power Generation - Nuclear Electric Power Systems Analysis Energy Conservation • • Oil & Gas Production/Storage/Distribution Oil & Gas Refineries/Processing Plants Solar Energy Steam Power Generation Air Quality Management **Environmental Assessments Environmental Site Assessments and Audits** Groundwater Resources/Hydrogeology Industrial Hygiene and Safety $Laboratory\, and\, Treatability\, Studies$ **Mould Studies** Risk Assessment Solid/Hazardous Waste Management Surface Water Resources Underground Storage Tank Management Africa - East Africa - North Africa - West Asia - SE Australia Central America China Europe - East Europe - North Europe - West Indian Subcontinent Japan Mexico • Middle East New Zealand Polynesia Russian Federation South America **United States** Fish By-products: Processing Fish Processing/Storage Fishery Resources: Evaluation, Development, Operations, Aquaculture Fishing Vessels Gear/Equipment $Marine\ Biology\ and\ Oceanography$ Monitoring, Control and Surveillance (MCS) Accident Reconstruction Cladding Failures Fires and Explosions Investigation and Settlement of Claims **Process Support Facilities** Product Failures and Liability Structural Failures • • Wind and Water Damage • •





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18. Mechanical

19. Mediation

21. Municipal

24. Planning

20. Mining Engineering

22. Occupational Health

23. Petroleum Engineering

Fields of Specialization

- 1. Aerospace
- 2. Agriculture
- 3. Building Science
- 4. Chemical Engineering 5. Communications/
- Telecommunications
- 6. Computer Science
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- 14. Geotechnical
- 15. Industrial
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- 25. Pressure Vessels 17. Materials
 - 26. Project Management
 - 27. Research
 - 28. Structural Buildings
 - 29. Structural Other
 - 30. Surveying
 - 31. Temporary Works
 - 32. Transportation

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Second	adv fina pro	A members, they can provide ice and assistance from the incial pre-feasibility phase of jects through to completion beyond. Building Materials: Plywood, Lumber Manufacturing, etc.	AECOM Akron Engineering Consultant's Gr	Al-Terra Almor Testing Services Ltd.	Aptus Engineering Ltd. Arcadis	Associated Engineering AtkinsRéalis Canada Inc.	Banner Environmental Engineering Binnie Consulting Ltd.	Clifton Engineering Group Inc.	CTM Design Services Ltd. CVL Engineers Inc.	D.E.S. Engineering Limited DIALOG	Eagle Engineering Corp.	EHAN Engineering Ltd. Englobe Corp.	Entuitive Corporation Envirogeotech Consulting Inc. EXP Services Inc.	FVB Energy Inc. GeoMetrix Group Engineering Ltd.	GHD Limited Hatch Hawk's Aerial and Technical Solution	HDR Corporation Hedgehog Technologies	HGC Noise Vibration Acoustics ISL Engineering and Land Services L	J.R. Paine & Associates Ltd. Jacobs	Kerr Wood Leidal Associates Ltd. Klohn Crippen Berger Ltd. LANIX ENGINEERING CO. LTD.	LEX3 Engineering Inc.	Magna IV Engineering, Inc. McElhanney Ltd.	MCW Hemisphere Ltd. Mott MacDonald Canada Limited	MPE a division of Englobe Northwest Hydraulic Consultants I	OGL Engineering Parsons Inc.	Pasquini & Associates Consulting L Patching Associates Acoustical Eng	PBX Engineering Ltd. RJC Engineers	Sameng Inc. Scheffer Andrew Ltd.	SE Design and Consulting Inc. SMA Consulting Ltd.	Smith + Andersen SMP Engineering	SolidEarth Geotechnical Inc. Stantec Consulting Ltd.	Stephenson Engineering Ltd. 72 Utility Fneineers Inc.	Terracon Geotechnique Ltd. Tetra Tech Canada Inc.	Thurber Engineering Ltd. TWD Technologies Limited	Urban Systems Ltd. V3 Companies of Canada Ltd.	Wave Engineering Consultants Inc
	Forestry	Forest Harvesting Forestry Forestry Engineering Pulp, Paper and Fiber Board Pulp/Paper Plants, Products Timber Engineering	•			•															•									•					
March Marc	Geotechnical	Foundations Laboratory Testing Site Investigations Soil and Rock Mechanics Soil Stabilization Ergonomics	• •	•		•	•				•	•	• •		• •			• •	•		•		•		•							• • • • • • • • • • • • • • • • • • •	•		0
Company Comp	Industrial 15	Machine Design/Analysis Manufacturing Facilities Materials Handling Materials Storage Plant Maintenance Product & Process Design Prototyping and Product Development	• •		•	•	•	•	• •			•			•	• •	•	•			•				•					0 0		•	•		•
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Part	Materials 41	Design and Selection Quality Issues Specifications and Manuals Testing and Certification Welding Building Codes QP	•	•			•	•				•	•						•		•	•	•		•					• •		• •	• •		•
Manual Property Manual Pro	Mechanical 81	Cranes and Derricks Finite Element Analysis Fire Protection Systems Heating, Ventilation and A/C Machine Design Plumbing and Piping Refrigeration Registered Code Agency	• • • • • • • • • • • • • • • • • • •			•	•	•				•	•	•	• •	•	•	•			•	•	•						•)	•	•		•
Part	19 80 iui W	Software Development Mediation and Alternative Dispute Resolution Blasting Control Iron and Steel Works - Rolling/Casting/Forging/etc. Metallurgy Extractive - Ferrous Metals Metallurgy Extractive - Non-Ferrous Metals Metals/Minerals/Ore Dressing Non-Ferrous Metals - Fabricating/Rolling/Casting/Extruding/etc. Open Pit/Underground Mining				• •		•							•				•		•									•		•			•
Martin	Health Municipal	Residuals Management Roads and Street Stormwater Management Wastewater Collection, Treatment and Disposal Wastewater Management Water Supply, Treatment and Distribution Area Classifications - Electrical	• • • • • • • • • • • • • • • • • • •	• •	• • •	• •			•			• •	•))	• • •	•	•	0 0	•	0	• • •	•	•	•	•	• •	• • • • • • • • • • • • • • • • • • •	• •		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•		•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •
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Part	Structural 52	Tanks and Shells Towers	• •			•		•		•)			•	•			•		•			•			•				• •			• •		•
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