

## ACEC-SK Fields of Specialization Input Form

<b>Company Name: (Please print or type)</b>	
Indicate both your Fields of Specialization and the Subcategories offered within that Field with a checkmark	
<b>FIELDS AND SUB-FIELDS</b>	
<b>AEROSPACE</b>	
Aerospace	
<b>AGRICULTURE</b>	
Agricultural Engineering / Agrology	
Agricultural Environment Organic Waste disposal in Rural Areas	
Drainage Studies / Surveys	
Draining and Irrigation Systems / Networks	
Farm Buildings	
Farm Machinery and Equipment	
Farmland Resources: Surveys and Improvement Works	
Food Processing and Storage	
Grains and Feeds: Drying, Cleaning, Handling, Processing and Storage	
Irrigation	
Land Drainage	
Nutrient Management	
Rural Planning and Development	
Water and Soil Conservation Engineering	
<b>BUILDING SCIENCE</b>	
Acoustics	
Architecture	
Capital Planning	
Ergonomics	
Fire Protection / Prevention	
Indoor Air Quality	
Inspections / Investigations	
LEED - Leadership in Energy and Environmental Design	
Preliminary/Final Design	
Repair / Restoration	
Residential	
Roofing & Waterproofing	
Technical Audits	
Walls & Cladding	
Windows	
<b>CHEMICAL ENGINEERING</b>	
Desalination	
Food Processing	
Plastics	

## ACEC-SK Fields of Specialization Input Form

Process Design	
Synthetic Fibres	
<b>COLD CLIMATE ENGINEERING</b>	
Building Design for Arctic Conditions	
Diesel Power Generation	
Ice Core Dams	
Ice Road Design	
Permafrost Investigations	
Petroleum, Oil and Lubricant Storage and Handling	
Thermosyphons	
<b>COMMUNICATIONS / TELECOMMUNICATIONS</b>	
AM/FM Broadcasting	
Data Transmission Systems	
Fibre Optics	
Program Production Facilities	
TV and CATV	
Terrestrial & Satellite Links	
Wireless Systems	
<b>COMPUTER SCIENCE</b>	
Client / Server	
Computational Mechanics	
Controls	
Database Management	
Ergonomics	
Internet / Intranet	
Process Automation	
Robotics	
Software Development	
<b>ELECTRICAL</b>	
Alarm & Security Systems	
Building Systems	
Energy Conservation	
Illumination & Lighting	
Motors & Generators	
Power Transmission & Distribution	
Residential	
<b>ENERGY</b>	
Biomass / Wood	
Co-Generation	
Coal Processing / Transportation	
District Heating & Co-Generation	
Electric Power Generation – Hydroelectric	

## ACEC-SK Fields of Specialization Input Form

Electric Power Generation – Nuclear	
Electric Power Generation – Thermal	
Electric Power Systems Analysis	
Energy Conservation	
Oil & Gas Pipelines	
Oil & Gas Production / Storage / Distribution	
Oil & Gas Refineries / Processing Plants	
Solar Energy	
Steam Power Generation	
Wind Energy	
<b>ENERGY GEOSCIENCE</b>	
Coal Bed Methane	
Coal Exploration/Mining	
Energy Reserves	
Petroleum Development	
Petroleum Exploration	
<b>ENVIRONMENTAL</b>	
Air Quality Management	
Environmental Assessments	
Environmental Litigation Support	
Environmental Site Assessments and Audits	
Groundwater Resources / Hydrogeology	
Industrial Hygiene and Safety	
Industrial Wastewater Treatment	
LEED - Leadership in Energy and Environmental Design	
Laboratory and Treatability Studies	
Mould Studies	
Noise & Vibration	
Physical Environmental Mapping and Analysis	
Record of Site Condition	
Risk Assessment	
Solid / Hazardous Waste Management	
Surface Water Resources	
Underground Storage Tank Management	
<b>ENVIRONMENTAL GEOSCIENCE</b>	
Hydrogeology & Groundwater	
Terrain Analysis/Remote Sensing	
Waste Management/Mitigation/Disposal	
<b>FISHERIES</b>	
Fish By-products: Processing	
Fish Processing / Storage	
Fishery Resources: Evaluation, Development, Operations, Aquaculture	
Fishing Vessels Gear / Equipment	

## ACEC-SK Fields of Specialization Input Form

Marine Biology and Oceanography	
Maritime / Harbour Engineering, Trans-shipment Equipment	
Monitoring, Control and Surveillance (MCS)	
Naval Architecture and Boat Construction	
Remote Sensing	
<b>FORENSIC</b>	
Accident Reconstruction	
Cladding Failures	
Electrical/Mechanical Failures	
Fire & Explosions	
Investigation and Settlement of Claims	
Process Support Facilities	
Product Failures and Liability	
Structural Failures	
Wind & Water Damage	
<b>FORESTRY</b>	
Building Materials: Plywood, Lumber Manufacturing, etc.	
Forest Harvesting	
Forestry	
Forestry Engineering	
Pulp / Paper Plants, Products	
Pulp, Paper and Fiber Board	
Timber Engineering	
Timber Grading, Wood Species Identification, Wood Damage Assessment	
<b>GEOPHYSICS</b>	
Mining Geophysics	
Seismic Acquisition/Analysis	
<b>GEOTECHNICAL</b>	
Aggregate Exploration and Evaluation	
Earth Structures	
Foundations	
Geohazard Mapping	
Laboratory Testing	
Site Investigations	
Soil Stabilization	
Soil & Rock Mechanics	
<b>INDUSTRIAL</b>	
Ergonomics	
Hydraulic Engineering	
Machine Design/Analysis	
Manufacturing Facilities	
Materials Handling	

## ACEC-SK Fields of Specialization Input Form

Materials Storage	
Plant Maintenance	
Product & Process Design	
Prototyping and Product Development	
Time Motion Studies	
Transportation/Automotive Equipment	
<b>MARINE &amp; COASTAL</b>	
Erosion Protection	
Marinas	
Ports & Terminals	
Shore Erosion Processes and Assessment	
Underwater Surveys	
Waterfront Planning	
<b>MATERIALS</b>	
Analysis	
Corrosion Control & Remediation	
Design and Selection	
Quality Issues	
Specifications & Manuals	
Testing and Certification	
Welding	
<b>MECHANICAL</b>	
Computational Fluid Dynamics	
Computer Aided Engineering	
Cranes & Derricks	
Finite Element Analysis	
Fire Protection Systems	
Heating, Ventilation, A/C	
Machine Design	
Plumbing & Piping	
Refrigeration	
Residential	
Software development	
<b>MINERAL GEOSCIENCE</b>	
Mineral Exploration	
Mineral Reserves	
Mining Geology	
Rock Mechanics	
<b>MINING ENGINEERING</b>	
Blasting Control	
Iron & Steel Works – Rolling / Casting / Forging / etc.	
Metallurgy Extractive – Ferrous Metals	

## ACEC-SK Fields of Specialization Input Form

Metallurgy Extractive – Non-Ferrous Metals	
Metals / Minerals / Ore Dressing	
Non-Ferrous Metals – Fabricating / Rolling / Forging / Casting / Extruding / etc.	
Open Pit / Underground Mining	
<b>MUNICIPAL</b>	
Infrastructure Rehabilitation	
Residuals Management	
Roads & Streets	
Stormwater Management	
Wastewater Collection and Treatment	
Wastewater Management	
Water Supply and Treatment	
<b>OCCUPATIONAL HEALTH AND SAFETY</b>	
Area Classifications - Electrical	
Area Classifications - Hazardous	
Area Classifications - Industrial	
Pre-start Health and Safety Reviews	
<b>PETROLEUM ENGINEERING</b>	
Acquisitions and Divestitures	
Evaluations	
Expert Witness	
Exploitation	
Feasibility Studies	
Reservoir Engineering	
Well Test Analysis	
<b>PLANNING</b>	
Drainage Studies	
Industrial Parks	
Land Use	
Site Plans	
Subdivision Plans	
Urban & Rural Design	
<b>PRESSURE VESSELS</b>	
Design Modifications	
Process Piping Design	
<b>PROJECT MANAGEMENT</b>	
Construction Management	
Construction Quality Control	
Contract Administration	
Management of Design	
Procurement Management	

## ACEC-SK Fields of Specialization Input Form

Project Control and Risk Management	
Related Management Services	
Value Engineering	
<b>RESEARCH</b>	
Feasibility Studies	
Technology Assessment	
<b>STRUCTURAL - BUILDINGS</b>	
Commercial	
Foundations	
Highrise	
Industrial	
Inspections & Investigations	
Institutional	
Lowrise	
Parking Facilities	
Residential	
Restoration & Repair	
Seismic Retrofit	
<b>STRUCTURAL - OTHER</b>	
Bridges	
Bunkers & Silos	
Dams & Locks	
Nuclear	
Tanks & Shells	
Towers	
Tunnels	
<b>SURVEYING AND MAPPING</b>	
Aerial Photography : Photogrammetry / Photo Interpretation / Cartography	
Construction Layout Surveys	
Geographic Information Systems	
Land Surveying / Cadaster	
Remote Sensing / Satellite Data Interpretation / Imagery	
Resource Surveys, Exploration and Planning	
Topographic Surveys	
<b>TEMPORARY WORKS</b>	
Excavation Enclosures	
Formwork	
Lifting & Moving	
Scaffolding	
Structural Shoring	

## ACEC-SK Fields of Specialization Input Form

<b>TRANSPORTATION</b>	
Airports	
Highway & Road Safety	
Intelligent Transportation Systems	
Long Distance Rail	
Pavement Design	
Pavement Management Services	
Ports & Harbours	
Roads & Highways	
Terminals and Service Centres	
Traffic Engineering & Control	
Transportation Planning	
Urban Public Transit	