



## ENGINEERING & SURVEYING EXCELLENCE AWARDS COMPETITION

### CATEGORIES

Engineering and surveying projects may be entered in one of the following categories. It is common for a project to be eligible for more than one category. It is up to the entrant to determine which category the entry best fits.

A project may be entered only once in any category. However, after a project entered in Category A has been constructed, it may be entered in a different category in the eligible year.

#### **Studies, Research & Consulting Engineering Services**

Non-design services, projects not involving the preparation of construction documents consisting of but not limited to the following types of projects:

- New products, materials and technologies
- Expert testimony
- Basic research and studies
- Computer/software technology
- Technical papers
- Public outreach/involvement
- Water conservation
- Security plans
- Project feasibility studies/economic/risk
- Value engineering

#### **Structural Systems**

- Foundations
- Tunnels
- Buildings
- Seismic design
- Towers
- Bridges
- Stadiums

#### **Environmental**

- Hazardous waste
- Solid waste
- Restoration/reclamation/remediation
- Air quality
- Noise
- Recycling
- Waste pond management
- Carbon sequestration and trading
- Mitigation

#### **Building/Technology Systems**

- Mechanical/electrical/plumbing
- Computer/technology
- Communications
- Acoustics
- Software systems
- Sustainability or carbon neutrality
- Efficiency certification standards, e.g., LEED®
- Energy efficiency – new and retrofit
- Secure facilities (military, research, correctional)

#### **Survey & Mapping Technology**

- Geometrics, ALTA, land title and rights surveys
- Control, GPS, monitoring or construction surveying
- Survey mapping, GIS/LIS, photogrammetry

#### **Waste & Storm Water**

- Wastewater collection/treatment and disposal
- Residuals management and reuse
- Graywater systems
- CSOs
- Mine tailings
- Agricultural
- Storm water management
- Erosion control

### **Water Resources**

- Hydraulics, hydrology
- Surface and groundwater supply development
- Treatment
- Transmission, distribution and storage
- Watershed management
- Water use reduction
- Flood risk management
- Climate adaptation
- Coastal and eco-system restoration
- Locks/dams/water control structures
- Irrigation

### **Special Projects**

- Safety and security
- Corrosion protection/cathodic protection
- Program and construction management
- Land development
- Trenchless technologies/directional boring
- Recreational facilities
- Subsurface engineering

### **Industrial and Manufacturing Processes and Facilities**

- Petrochemical
- Biotech
- Manufacturing
- Heavy industry
- Industrial waste
- Materials handling
- Mining, metallurgy, mineralogy

### **Transportation**

- Highways
- Rail
- Airports
- Marine/ports
- Public transit
- Intermodal facilities

### **Energy**

- Transmission and distribution
- Power generation
- Renewable energy
- Cogeneration
- Energy storage technologies
- Energy usage reduction programs
- Demand side management