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

**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)

**Structural Systems**
- Foundations
- Tunnels
- Buildings
- Seismic design
- Towers
- Bridges
- Stadiums

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

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

**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