

CATEGORY DELINEATIONS

Engineering projects may be entered in one of the following categories. It is up to the entrant to determine which category the entry best fits. An entry may be entered only once in any category.

CATEGORY 1

STUDIES, RESEARCH AND 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

CATEGORY 2

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)

CATEGORY 3

STRUCTURAL SYSTEMS

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

CATEGORY 4

ENVIRONMENTAL

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

CATEGORY 5

WATER RESOURCES OR WASTE AND STORM WATER

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

CATEGORY 5 CONT.

- 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

CATEGORY 6 TRANSPORTATION

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

CATEGORY 7 ENERGY

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

CATEGORY 8

INDUSTRIAL AND MANUFACTURING PROCESSES AND FACILITIES

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

CATEGORY 9

SMALL PROJECTS

Total project construction budget does not exceed \$2.5 million. At the entrant's discretion, except for entries in Category 1, projects under \$2.5 million are not limited to this category.

CATEGORY 10

SPECIAL PROJECTS

- Safety and security
- Corrosion protection/cathodic protection
- Program and construction management
- Land development
- Trenchless technologies/directional boring
- Recreational facilities
- Subsurface engineering
- Surveying and mapping technology
- Other project type not included in main categories