Green Building

‘Intelligent Green Building’, which integrates green building design and intelligent technology is a global trend at the present time. Furthermore, it is also one of the four innovative intelligent industries strongly promoted by the government at this stage. Intelligent green building designs are getting more mature and the development of intelligent communities seem to be the future trend. By introducing sustainable design, information communication, sensor, control and big data technologies into buildings, not only the problems of a single building environment can be solved, but also its connection with the whole community will be improved, which leads to the further satisfaction of people’s demands for safety, health care, energy saving, sustainability, convenience and comfort in their surrounding environment. The demonstration of ways intelligent green building design improves quality of living spaces both old and new serves as valuable insights for the industries as a whole.

**Format**

The focus of this creativity competition is the design of intelligent green building. Its objective is to come up with ideas on how to facilitate co-prosperity between the development of buildings and environmental protection, cultural preservation and innovative service. These designs must be sustainable or adopt intelligent system/product/service model solutions as well as using advanced technology, such as ICT, sensor, big data, IoT, and cloud service etc. to solve problems that people face in everyday living and to satisfy the needs for safety, health care, energy saving and sustainability, convenience and comfort. Proposals integrating existing (or buildings reconstructed after demolition) architectures are also invited.

**Rules**

* Students will design a community center no greater than 5,000 sq.ft.
* Incorporate sustainable features in the areas of thermal comfort, indoor air quality, daylighting, acoustics, energy efficiency, resource strategy, aesthetics, and economic practicality.
* The ability to attain LEED certification is preferred.
* The building should have a footprint no greater than 71 ft. by 71 ft.
* No restriction on overall building height.
* Required areas include a large room for resident gatherings, male and female restrooms, kitchen, office, and storage room.
* Emphasis should be placed on complimenting existing buildings, natural surroundings, and an overall sense of community as well as on accessibility.
* Outdoor space, such as patios, may be included in the design but may not exceed the 71 ft. by 71 ft. footprint.