



JOB DESCRIPTION

ENGINEERING/APPLIED SCIENCES EXHIBIT INTERN

Position Title: Engineering/Applied Sciences Intern

Department: Experience Integration

Reports to: Exhibition Leader

Status: Unpaid/Volunteer

Position Overview

The galleries overlooked/managed are *Skyscraper!* and *Energy Quest*. *Skyscraper!* includes exhibits encompassing engineering methods in design and construction of skyscrapers while *Energy Quest* involves use of energy and methods of capturing and transferring energy from a variety of sources including geothermal, bio-stored, nuclear and surface renewable. The Intern has to understand basic principles of engineering and technology along with the ability to problem solve with innovation and creativity. The Intern is required to relay key concepts and enhance guest experience through expertise and knowledge in specific areas of engineering. He/she also plays a vital role in designing, developing and presenting temporary /short term programs and activities for groups of all ages based on engineering principles and methods. The intern assists in training of current staff and volunteers in exhibits specifically in the engineering field.

Key Responsibilities:

- Provide outstanding service to guests in all public spaces particularly in *Skyscraper!* and *Energy Quest* Exhibition Galleries.
- Providing guests with expertise and knowledge in engineering and technology.
- Encouraging new ideas to improve and enhance guest experience.
- Design, develop and present educational programs/activities/lessons based on exhibit concepts.

Requirements:

- Good communication skills
- Ability to present/teach in front of large groups.
- Innovation and creative thinking.
- Good understanding of key engineering concepts listed in 'Qualifications' below.
- Ability to relay in-depth scientific concepts through different techniques to accommodate guests of all ages.

Training and Support

- Interns will have full orientation of Liberty Science Center as per Volunteer/Intern Policy.
- Training in public speaking and presentation can be provided.
- Shadowing current Volunteers/Interns/Employees to understand job role and responsibilities.

Qualifications:

- Have a background or pursuing a career in the following fields:
Civil Engineering, Structural Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Nuclear Engineering, Construction Management or Engineering Management.
- Should have an understanding of the basics in the following engineering concepts: stresses and strains, construction, forces/torque, moments, heat transfer, thermodynamics, material science and circuits.
- Knowledge of engineering tools such as Pro-Engineer or AutoCAD is a plus.

Time Commitment:

- A time commitment of at least a 4-hour shift once a week. However, the time commitment is also dependent on project priority and status.