

# AIA Course: ESL103

## *Enhancing Exterior Architecture & Landscaping with LED Lighting*

Architectural Lighting has changed dramatically since the introduction of LED light sources. Structures and landscapes can now be illuminated better than ever using smaller, more efficient light sources. Participants will learn lighting design techniques for dramatically illuminating exterior facades, entries, architectural details and landscapes, using knowledge of LED light fixture intensities, optics and mounting locations.

### Learning Objectives:

1. Understand how the history of artificial lighting influences exterior architecture and landscape lighting today.
2. Analyze the basic principles of exterior architectural and landscape lighting design.
  - Flood
  - Wash
  - Spot
  - Graze
  - Back Lighting / Indirect
3. Describe how modern optics and reflectors can be used to efficiently shape light, maximize throw and create different lighting effects.
4. Calculate the optimal LED fixture mounting location and setback based on the desired effect and application.

