

## **Daylighting analyst (Internship May-July 2011)**

**Company:** Soladigm, Inc (<http://soladigm.com/>)

**Location:** Milpitas, CA

**Position:** Internship (2-4 months)

### **Job description:**

Daylighting analyst/intern with expertise in daylighting software (ECOTECT, Radiance, day-sim) to create simulation model for different building typologies analyzing the impact of lighting energy use and occupant comfort in buildings using Soladigm dynamic product and create documentation of the same.

### **Key Responsibilities**

Develop daylighting analysis models to understand the following using Soladigm product.

- Glare, illuminance levels required for different building typologies
- Daylight autonomy
- Daylight Factor
- Radiance Rendering (shows illuminance levels within the space at one point in time)
- Luminance (cd/m<sup>2</sup>)
- Lighting Contrast ratios within the space

Maximize daylighting benefits using Soladigm product

- Provide inputs to the control algorithm team
- Generate documents with best known methods for each bldg type
- Generate white papers
- Assist in qualifying for LEED® or other sustainable rating agenda

### **Education/Experience**

- Strong knowledge of daylighting analysis tools – ECOTECT, Radiance and Daysim
- Hands- on experience with Autocad, Revit, Archicad and other relevant software
- Knowledge of DOE-2 based programs: eQUEST, Energy plus (desired)
- Understanding of daylighting standards like IESNA and others like ASHRAE 90.1
- Knowledge and experience of solar analysis tools, shading analysis
- Familiarity with sensor controls used for daylighting analysis
- Good understanding of lighting design glare and illuminance in buildings
- Comfortable with high volume, quick turnaround deadlines
- Excellent written and verbal communication skills
- BS degree (or working towards) in Building Sciences or Architecture, Engineering
- Familiarity with USGBC LEED Rating System