



## **Internship – Philips Research North America**

Philips Research North America (PRNA) is one of Philips' six worldwide research laboratories where innovations and discoveries help drive Philips products and opportunities. PRNA contributes to the global research programs in the fields of Healthcare and Lighting and in the areas of Lighting Solutions and Services (LSS), Clinical Decision Support Solutions (CDSS), Clinical Informatics, Interventional, & Translational Solutions (CIITS), and Ultrasound, Photonics and Bioinformatics (UPB).



**Length of Internship:** 3 months

### **Position Responsibilities:**

The intern will be working with a team developing state-of-the-art lighting controls, including electric and daylighting controls. The intern will be contributing to this aspect through performing energy modeling, simulations and data analysis. In particular, the task for this position will be focusing on developing simulation models for light and window blind controls, setting up batch simulations to investigate variations of scenarios, and analyzing the simulation results. The intern is expected to quantify the benefits of advanced controls and identify potential improvements through the simulation exercises. This will be a very good opportunity to gain experience and exposure on the state-of-the-art solutions for building energy management and controls toward green buildings.

### **Position Requirements:**

The candidate must be a graduate level student in Engineering, Architecture or other related fields. The candidate needs to be familiar with the follows.

- EnergyPlus building energy modeling and simulations;
- Co-simulation tools, such as the Building Controls Virtual Test Bed (BCVTB);
- Execute simulations on a Linux cluster;
- Automate batch simulations and large data processing with script languages;

In addition, expertise in SQL language is highly desired. Experience with Radiance and other lighting simulation tools is also preferred. Knowledge about physics of light/daylight, lighting systems is a plus.

The candidate must be able to work within a team environment, should be self-motivated and have the ability to plan and execute tasks independently. Candidate should also be able to communicate effectively, both verbally and written.

### **For Interns:**

- If relocating to our area is necessary for this position, PRNA reimburses travel expenses to our area at the start and end of the internship.
- If housing is necessary, PRNA supports home-finding services for short-term housing.
- PRNA offers competitive pay.

### **Internship contact:**

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