PHILIPS

Three-Month Internship – Light and Well-Being/Simulation

Philips Research North America, Briarcliff Manor, NY

Philips Research, the research arm of Royal Philips Electronics, is a global research organization with laboratories in Europe, North America and Asia. We work on innovations and discoveries that help drive Philips products and opportunities. Philips Research North America (PRNA) focuses on healthcare systems, ultrasound imaging and therapy, biomedical informatics, and energy efficient and networked environments. We are located on a 100-acre campus overlooking the Hudson River, about an hour north of New York City.

Royal Philips Electronics is a world-wide diversified Health and Well-being company, focused on improving people's lives through timely innovations. As a world leader in healthcare, lifestyle and lighting, Philips integrates technologies and design into people-centric solutions.

Position Responsibilities and Opportunities:

The candidate will be doing foundational research into the emotional and biological effects of light and the methods to quantify these effects through simulation. Specifically, through literature searches and leveraging results from existing Philips Research efforts the candidate will investigate how light influences emotional and biological processes in people. The candidate will identify the scope of what can be influenced with light and what parameters can be measured in order to quantify the effects. The candidate will explore how these effects can be modeled and simulated. Starting with the simulation activities at PRNA (using EnergyPlus, Matlab, Radiance), the candidate will determine the effectiveness and/or limitations of these tools and other existing simulation tools for modeling these effects.

Position Requirements:

The candidate must be a graduate level (Ph.D. preferred) student in Electrical Engineering, Computer Science, Architecture, Mechanical Engineering, Physics or other related fields. The candidate ideally has some experience with building and/or lighting simulation tools, e.g. ray-tracing software such as Radiance. Coursework in relevant physical sciences (Biology, Physiology) can be helpful. Programming experience in C, C++, is a plus. Candidate must 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, Philips Research:

- Reimburses travel expenses to our area at the start and end of the internship.
- Supports in home-finding services for short-term housing.
- Offers competitive pay.

Send resume to:

Dr. Eric Shen,
Philips Research North America
345 Scarborough Road, Briarcliff Manor, NY 10510
Email: e.shen@philips.com , **Tel:** 914-945-6123
We are an equal opportunity employer M/F/H.
To learn more about Philips: http://www.philips.com/about