Kyulux

email: recruit_kna@kyulux.com

Job title	*Software Engineer*
Reports to	*Director of Kyulux North America, Inc.*

Job purpose

This position is in the Boston office at Kyulux North America, Inc. This world-class team is responsible for developing software tools; performing high throughput virtual screening with quantum chemistry, cheminformatics, and device simulations; using machine learning and data science on theoretical and experimental data with the goal of discovering new materials for OLED displays alongside our colleagues in the lab, which is in the Kyulux, Inc., Fukuoka, Japan. Your job is to push forward our science with an approach that leverages scientific intuition, evidence-based reasoning, practicality and wrangling copious amounts data.

Duties and responsibilities

- Maintain frontend written in React and Node.js with Django; design, write, optimize & debug web-tools
- Maintain web-based service on AWS Cloud Platform
- Maintain or implement API interface on Django backend if needed
- Collaborate with and help physics, chemical, and ML researchers
- Use version control tools on codes to work with colleagues

Qualifications

Qualifications include:

- A strong CS background with 3+ years of experience writing software
- 3+ years of frontend project experience in React, Node.js, JQuery, Django, Babel, Webpack, or related frameworks
- Understanding of REST API concept and design
- Experience with Linux based development environment
- Experience with cloud computing utilizing Amazon Web Services (AWS)
- Experience with GitHub for version control and CI/CD

Preferred Skills

- Deep understanding of web service on AWS EC2, Route53, Load balancer, Security Groups, Certificate managements as well as Nginx and gunicorn wsgi setup
- Experience in designing schema and optimizing SQL using PostgreSQL is a huge plus
- Scientific computing packages, especially in Python, including numpy, pandas, scipy, matplotlib (or other plotting favorite else), jupyter notebook is a huge plus
- Basic understanding of machine learning model (hands-on experience a plus) and platforms such as Scikit-learn, PyTorch, Keras or XGBoost
- Basic understanding of organic chemistry, experience of RDKit

Working conditions

As a full-time employee, 40 hours of work per week would be expected. Frequent evening meetings should be expected; thus, working hours shall be flexible. Business Travel is an option but not required.