![Kyulux logo]

Job Title	Research Scientist – Machine Learning
Reports to	Senior Manager

Job Purpose

This position is in the Computation Research & Development Group at Kyulux North America, Inc. The group's main responsibility is to develop the Kyumatic – a materials informatics platform that is composed of several segments: high-throughput virtual screening via cheminformatics, data collection and management, and machine learning and data science on theoretical and experimental data. The ultimate objective of Kyumatic is to discover new materials for OLED displays. Your role is to advance our machine learning models by utilizing scientific intuition, evidence-based reasoning, practicality, and wrangling large amounts of data.

Duties and Responsibilities

- Develop and assess machine learning models for addressing scientific inquiries
- Create data management tools for feeding data into machine learning models
- Utilize version control tools for storing, tracking, and sharing your work
- Document and present your work

Qualifications

Must:
- Master's degree or above in machine learning with a scientific background (e.g., chemistry, physics, materials science, or similar fields)
- Advanced experience in various machine learning packages and algorithms
- At least two years of experience building/maintaining machine learning models for scientific purposes
- Evidence of scientific communication skills, both verbal and written (e.g., peer-reviewed papers)
- Willingness to work with biased and/or low fidelity (a.k.a. dirty) data

Preferred:
- At least three years of experience in writing software using Python
- Familiarity with:
    - Database querying using Django or SQL; understanding of relational database
    - Scientific packages such as numpy, pandas, scipy, matplotlib (or similar), jupyter notebook
    - Version control with git or similar

A plus:
- Basic understanding of organic chemistry/device physics and related experimental setups
- Basic understanding of simulation methods such as DFT, MD, kMC, numerical simulations
- Proficiency in Japanese
- Legal residency in the United States

Working Conditions / Benefits

- Work hours: 40 hrs/week (at least 16 hrs/week must be completed in-office until further notice)
- Meetings: Virtual meetings with colleagues in Japan for at least 4 hrs/week (time varies).
- Benefits: health/dental/vision (company covers 80%) / 401k plan available, but no matching

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