



Job title	Research Scientist; Machine learning specialist
Reports to	Senior Manager

Job purpose

This position is in the Computation Research Group at Kyulux North America, Inc. The group is responsible for developing a high through virtual screening platform, Kyumatic, with the goal of discovering new materials for OLED displays. Your job is to push forward our science with an approach that leverages quantum chemistry, cheminformatics, machine learning, and data science on large theoretical and experimental data.

Duties and responsibilities

- Use advanced statistical and data science concepts, combined with experimental/ theoretical chemistry data, to answer scientific inquiries about materials
- Create and evaluate machine learning models to answer these scientific questions
- Clean messy data from disparate sources
- Design, write, & debug command line tools using python
- Use version control tools to collaborate on code with colleagues
- Document/present your work for colleagues

Qualifications

Must:

- At least 2 years of experience building/maintaining machine learning models for subjects related to chemistry or similar fields; advanced understanding on various machine learning packages/algorithms are required
- Master or equivalent academic experience in computational chemistry or similar fields

Preferred:

- Experiences on excited states calculations for organic molecules
- Version control with git or similar
- Database querying using Django or SQL; understanding of relational databases
- Scientific packages including numpy, pandas, scipy, matplotlib (or similar), jupyter notebook

A plus:

- Basic understanding of organic chemistry and related experimental setups
- Language: Japanese

Working conditions / Benefits

- 40 hrs/week; remote & in-person hybrid
- At least 4 hrs/week of evening (virtual) meeting with colleagues in Japan (times vary).
- Health, Dental/Vision, 401k (no match)

Contact Information

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