

What if you could predict unexpected drug actions proactively, to identify toxicities & new indications? SeaChange is a lean startup doing this, using unique techniques based on our founders' work in *Nature*. We think it's time for a change in drug discovery, and we're developing the tools & team to achieve it.

#### **Computational chemist/cheminformatics** | *overview*

We're looking to bring on a full-time employee with cheminformatics, software engineering, chemistry, and some degree of drug discovery experience. Biological, computational, or math degrees are also okay if the candidate understands chemical structures. Strong coding background is a must.

Ph.D. with startup, biotech, or pharma experience (5+ years) ideal, but others considered.

Tasks are primarily in the area of automating data retrieval, algorithms for matching drug structure with activity, literature searching for manual data retrieval, database building and pipelining, applied research, and a fair amount of sleeves-rolled-up grunt work as there are only a few of us in the company.

Person has to be flexible, hard-working, and comfortable with rapidly changing tasks and objectives.

#### **Computational chemist/cheminformatics** | *job description*

##### **Position Requirements:**

BS/MS in Computer Science required; biotech/pharma-related PhD desired.

- Requires extensive experience writing dynamic, secure, database-driven software.
- Requires scientific software engineering, algorithms development, & mathematics foundation.
- Requires understanding of chemical structures & familiarity with chemical or biological data.
- Strong programming foundations in C or a sufficiently justified equivalent.
- Knowledge of Python essential.
- MySQL DB design & programming in \*nix environments experience highly desired.
- Background desired in PHP (Ruby also OK) and JS for development of dynamic web applications.
- Knowledge of artificial intelligence techniques desired; data mining experience is a strong plus.
- Knowledge of life sciences informatics systems and modeling tools a strong plus.
- Familiarity with open source tools and libraries such as indigo and pybel a plus.
- Most interface work will be web, though ability to write GUIs such as Python/QT a plus.

##### **Job Function & Role:**

- The candidate will be responsible for design & implementation of client and web applications delivering cheminformatic scientific content. They will be an early member of a team developing both in-house and customer-oriented informatics solutions for visualization, mining, pipelining, and data querying of our drug discovery knowledgebase.
- The ideal candidate will understand biological and chemical information and be able to quickly grasp complex data models involving heterogeneous data sources. There's significant room for contributions to core scientific discovery and development. The position thereby requires strong scientific computing and algorithms development skills.
- The candidate must be goal-focused, detail-oriented, self-directed, and able to work effectively with a small group of supportive and driven founders who expect scientific excellence while moving rapidly to commercial value.