

## Research Scientist, Informatics (ML), Structural Biology & Chemistry

- An independent scientific thinker with the ability to work within Research to support drug discovery with innovative data science methods.
- Works with research scientists to understand their decision-making strategies and envisions methods of providing predictions that will impact/accelerate drug discovery.
- Works alongside scientists to develop novel methods based on existing AI/ML algorithms.
- Employs scientific rigor in model building and knowledge of physics-based parameters.
- Determines the appropriateness of curated and open-source data to predict properties that will impact drug discovery.
- Creates relevant, impactful models and deploys those models within tools for modelers and designers.
- Prepares detailed presentations for use by self or scientists which articulate the methods employed, their strengths, weaknesses, and appropriateness for a given problem.
- Uses scripting tools to help accelerate drug discovery while ensuring long-term support and integration into a scientific ecosystem.
- Integrates relevant scientific software from vendors.
- Works alongside our existing C# programming group, which is responsible for developing and integrating vendor software; develops Knowledge of C#.

### Key Responsibilities

- Support for data-driven decision-making by the creation of models and through cross-functional collaboration with small-molecule modelers and antibody designers.
- Engages with scientists to define predictive models and scientific software needs.
- Provides critical statistical analysis of methods AND develop models which are transparently linked to training data.
- Collaborates on data analysis and visualization software.
- Develops analytical methods to understand the impact and use of models and tools.
- Works as an individual contributor with dotted-line responsibilities for advising more junior members of RI.
- Makes contributions to scientific literature and conferences through the publication and presentation of methods in the context of drug discovery.

### Minimum Qualifications

- A Ph.D. degree in Physics, Mathematics, Statistics, or related science (Chemistry or Biology) with some experience in programming or scripting and AWS (for Infrastructure as a Service) OR native AWS use
- Familiarity with databases and SQL.
- Foundation in data mining and data visualization.
- Knowledge of methods to analyze data for visual impact to make scientific decisions.
- A drive for practical and flexible solutions to problems.
- The ability to develop solutions to complex problems with ingenuity and creativity.
- An ability to work within a team to manage a project for success.
- An understanding of how to work within a rigid time constraint.