Position	**Computational Chemist**
Supervisor	Donovan Chin, Director of Computational Drug Discovery
Department	Chemistry
Prerequisites	PhD in Chemistry or related scientific field with 3-5+ years of experience within pharmaceutical or biotechnology field

Mission:

The mission of Arrakis Therapeutics is to extend small molecule drug discovery into new realms of biology by discovering and developing compounds that selectively target RNA. By targeting specific RNA structure/function relationships, Arrakis will generate drug candidates with novel mechanisms of action for high-value molecular targets that are challenging to address via more traditional protein-centric approaches. Our efforts span a wide range of disease areas including oncology, neuroscience and rare disease, with a focus on indications with high unmet medical need.

Arrakis is seeking a computational chemist to join our rapidly growing company in pursuit of targeting RNA with small molecules. The successful candidate will support all aspects of medicinal chemistry programs from hit to lead and beyond, participate in informatics strategies, interface with consultants and collaborate across disciplines within Arrakis.

Key Outcomes:

1. Provide computational medicinal chemistry support, including SBDD and cheminformatics methods and applications for hit-to-lead progression, initiating new projects, and for new drug target assessments

2. Display an understanding of modern drug discovery including medicinal chemistry and DMPK principles, basic tox and multi-parametric optimization, molecular recognition principles, and the ability to adapt and translate these principles to RNA

3. Support the application and development of desktop tools for scientists.

4. Participate in chem- and structural- informatics strategies, and integrate our state of the art RNA computations into molecular design hypotheses

5. Interface with chemical vendors, contractors and structural biology collaborators

6. Demonstrate mastery of computational software such as, but not limited to, Molsoft or OpenEye is desired, and experience with Python programming or molecular scripting languages is a plus

Core Competencies:

1. ***Fast-acting/efficient*.** Moves quickly and proactively with a strong work ethic to produce high-quality results while fostering a positive work environment. Able to produce significant output with minimal wasted effort. Focuses on key priorities. Does not let important details slip through the cracks or derail a project. Demonstrates tenacity and willingness to go the distance to get something done.

2. ***Integrity.*** Does not cut corners ethically. Earns trust and maintains confidences. Does what is right not just what is politically expedient. Speaks plainly and truthfully. Follows-through on commitments. Expects personal performance and team performance to be nothing short of world-class.

3. ***Intelligence and innovation*.** Learns quickly. Demonstrates ability to proficiently understand new information. Able to structure and process qualitative and quantitative data and draw insightful conclusions. Exhibits a probing mind and achieves penetrating insights. Generates new and innovative approaches to problems.

4. ***Teamwork***. Reaches out to peers and cooperates with the team to establish an overall collaborative working environment. Let's others speak and seeks to understand their viewpoints. Often solicits feedback and reacts calmly to objective feedback. Speaks, writes, and presents clearly without being overly verbose. Able to convince others to pursue a course of action. Able to communicate the big picture in an inspiring way. Exhibits passion and excitement over work. Has a can-do attitude without losing objectivity.

5. **Flexibility/adaptability.** Adjusts quickly to changing priorities and conditions. Copes effectively with complexity and change. Calm under pressure.

7. ***Technical proficiency.*** Mastery of modern computational chemistry including, but not limited to, structure-based design (receptor and ligand-based), scaffold hopping, docking, conformational analysis, QSAR (including modern AI and machine learning), binding free energy calculations and cheminformatics.