CYCLARITY THERAPEUTICS

Cyclarity Therapeutics (CTx) is a clinical stage pharmaceutical company located at the Buck Institute for Research on Aging (Novato, CA). CTx is seeking a motivated and detail-oriented researcher to join our interdisciplinary team. CTx is engineering drugs to treat atherosclerosis (heart disease) and other diseases of aging by binding and removing certain damage-causing molecules that are implicated in disease. By binding and removing certain toxic forms of cholesterol, for example, our drugs can reverse the underlying pathology associated with arterial disease.

CTx is seeking enthusiastic students to join our research team. This position provides an excellent opportunity to gain hands-on experience in wet-lab research, computational research, or a combination of both within a fast-paced translational research environment. The student will have the opportunity to work closely with scientists on projects involving molecular biology, biochemistry, computational modeling, and/or *in vivo* research. **Projects will be tailored to the students interests and goals**.

Note: The computational components focus on molecular modeling and molecular dynamics simulations. This is not an omics, bioinformatics, or large-scale data analysis project. ***Previous computational experience is not required.***

Primary job duties may include:

- Review and discuss relevant scientific literature and actively participate in lab meetings and collaborative research discussions.
- Perform laboratory experiments, maintain and calibrate equipment, and accurately document procedures and results in laboratory notebooks.
- Conduct biochemical binding assays, toxicity assays, ELISAs, cholesterol extractions, and other common molecular biology and biochemistry techniques.
- Use semi-automated instrumentation, including robotic liquid handlers.
- Apply and communicate fundamental principles of molecular interactions and develop an understanding of the strengths and limitations of computational modeling approaches.
- Conduct molecular dynamics (MD) simulations to investigate how structural modifications to drug molecules influence target and off-target binding.
- Use command line tools and develop simple scripts (Python and BASH) to automate computational workflows and data analysis.
- Analyze and interpret experimental data and communicate findings to the research team.
- Gain exposure to rodent studies, with the option to learn animal handling and related experimental procedures under appropriate supervision and training.

Experience required:

- Bachelor's degree or current enrollment in Biology, Chemistry, Biochemistry, Molecular Biology, Immunology, Bioengineering, or a related field.
- Ability to work independently and collaboratively in a multidisciplinary research environment.
- Strong organizational skills and attention to detail, including accurate record-keeping.
- Demonstrated willingness and ability to learn new experimental and computational techniques.
- Strong interest in biomedical research and translational science.

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Preferred experience [NOT REQUIRED]:

- Basic proficiency with 96-well plate assays and use of plate reader spectrophotometers.
- Experience with mammalian cell culture, animal studies, robotic liquid handlers, and/or affinity assays.
- Familiarity with command-line environments (Linux terminal/BASH shell) and basic programming in Python.
- Experience with molecular modeling or simulation software such as GROMACS, PyMOL, and/or PLUMED.
- Previous laboratory experience in molecular biology, biochemistry, or related disciplines.

Why join us:

- Hands-on experience in wet-lab and computational research techniques.
- Exposure to both *in vitro* and *in vivo* experimental workflows.
- Training in automation, assay development, and molecular modeling approaches.
- Mentorship from experienced scientists in a collaborative research environment.
- Opportunities to develop scientific thinking, experimental design, data analysis, and communication skills.
- Competitive compensation.

This internship is ideal for students considering careers in biotechnology, biomedical research, medicine, graduate studies, or computational drug discovery. If you are curious, motivated, and excited about learning how discoveries move from the bench toward therapeutic development, we encourage you to apply. We welcome students of all experience levels. Each project is tailored to the student's background, interests, and career goals. **Students have the option to pursue a predominantly wet-lab project, a predominantly computational project, or a combination of both, with optional exposure to animal studies where appropriate and of interest.**

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