

Technician B position in the Yang lab at Columbia University

Position Summary

The Yang Lab at the Columbia University Department of Molecular Pharmacology and Therapeutics investigates cell intrinsic and extrinsic mechanisms regulating tumor evolution and therapeutic resistance. The lab employs multidisciplinary approaches to study cancer evolution, including developing CRISPR-based molecular recording tools to track tumor evolution history, modeling tumor progression using genetically engineered mouse models, applying single cell genomics tools to dissect tumor heterogeneity, dissecting the molecular and cellular mechanisms of cancer evolution.

More information can be found on the lab's website: <https://www.dianyanglab.com>

Under the direct guidance of the principal investigator, you will be helping to develop and implement new CRISPR-based recording tools for mammalian system that will enable the team to tackle a wide range of biological questions. Starting from fall 2024, this position will involve working under the direct supervision of the principal investigator – including assisting with cloning, cell culture, CRISPR and mouse work, **so this would be an ideal opportunity for a hardworking, passionate, self-motivated professional who enjoys balancing multiple priorities and is looking for a 2-3 year career experience before beginning graduate school or medical school.**

What we provide:

- Exposure to groundbreaking research and working with a collegial, close-knit lab team
- A competitive compensation package with comprehensive health and welfare benefits
- Opportunities to present data in group meetings
- Opportunities for professional development including the potential to eventually take leadership on a project that supports the lab's larger research goals based on your interests and capabilities
- Previous technicians that worked with Dr. Yang have been accepted to top-tier graduate and medical schools

What you'll do:

- Perform a variety of laboratory and investigative procedures including routine experimental techniques such as standard basic molecular biology techniques, cloning, mouse breeding and tissue harvest, mammalian cell culture, flow cytometry and cell sorting, basic fluorescence microscopy, and standard biochemical assays.
- Work efficiently and cooperatively to assist Postdocs, Graduate Students, and other lab members.
- Operate lab equipment and prepare and order necessary supply stocks.
- Collect, verify, record, and compile experimental data.
- Participate in laboratory meetings and read literature applicable to the research area(s).
- Operate and maintain laboratory equipment to complete investigations.
- Prepare, order, and maintain stocks of necessary reagents, solutions and supplies.
- General lab operations support to help maintain a safe, clean, and orderly lab environment.

What you bring:

- A bachelor's degree in the biological sciences is required.
- Previous hands-on research experience working in a laboratory is required.
- Understanding of basic molecular and cellular biology techniques (PCR, gel electrophoresis, etc.).
- Previous experience with tissue culture of mammalian cells and/or molecular cloning is preferred.
- Excellent verbal and written communication skills.
- Excellent organizational, interpersonal, and time management skills with strong attention to detail.
- Proactive and self-motivated mentality with an eagerness to learn and grow.
- Proficient computer skills with demonstrated proficiency in Microsoft Office Suite.

Please include a list of three (3) professional references with contact information as part of your application.

Compensation and Benefits

Our employees are compensated from a total rewards perspective in many ways for their contributions to our mission, including competitive pay, exceptional health benefits, retirement plans, time off, and a range of recognition and wellness programs.

Physical Requirements

Remaining in a normal seated or standing position for extended periods of time; reaching and grasping by extending hand(s) or arm(s); dexterity to manipulate objects with fingers, for example using a keyboard; communication skills using the spoken word; ability to see and hear within normal parameters; ability to move about workspace. The position requires mobility, including the ability to move materials weighing up to several pounds (such as a laptop computer or tablet). Work may involve possible exposure to malodorous vapors, low dose radiation, contamination by toxic chemicals and acids and presence of carcinogenic substances or other hazardous materials. Persons with disabilities may be able to perform the essential duties of this position with reasonable accommodation. Requests for reasonable accommodation will be evaluated on an individual basis.