



Kanvas Biosciences

The Microbiome Imaging Company

About Us

Kanvas is a biotechnology company dedicated to studying and leveraging the microbiome towards developing next-generation treatment strategies. As a leader in microbial imaging, we're passionate about illuminating host-microbiome interactions with our advanced microscopy tools. Our mission at Kanvas is to characterize the microbiome and help unlock its potential as a druggable organ system. We are passionate about understanding how these microbial organisms work together, how they can be harnessed to improve human health and the environment, and how we can use our knowledge to make a meaningful impact in the world.

Our Values

1. **We hire good people who are also great scientists.** Kanvas is fortunate enough to have world-class scientists leading its R&D and scientific programs. But their unique talent is not the only reason they were hired. We strongly value integrity, honesty, dedication, and sportsmanship as critical traits in our team members.
2. **We think like explorers.** We recognize that we are trying to do something that has never been done before. While these new frontiers excite us, we are also cognizant of the magnitude of the challenges ahead. As we navigate uncharted territories, we devote the necessary preparation, creativity, and effort required to achieve our goals.
3. **We have a steadfast commitment to the team.** We believe that our collective knowledge, experience, and talent is enough to overcome any problem. We put our team members in the best positions for them to succeed and will be there to support them regardless of the outcome.
4. **We believe there is power in diversity.** This statement applies both to the microbiome we study and also encoded in our team and culture. The members of Kanvas represent different ages, races, nationalities, genders, identities, and orientations. We view these differences as a strength because different vantage points fuel our scientific discoveries and fortify our company culture.

Research at Kanvas

Kanvas is a cutting-edge biotech company at the forefront of microbial imaging. Our team of microbiologists, physicists, engineers, and geneticists are dedicated to developing the next generation of imaging tools that allow us to study microbes and host-microbiome interactions in their native biological environments. We use the principles of [HiPR-FISH assay](#) to explore the microbiome in various contexts, including disease pathogenesis and microbial interspecies interactions. Our state-of-the-art research facility in Princeton, NJ, is equipped with advanced technology for microscopy, image processing, aerobic and anaerobic microbial culture, tissue processing, and molecular biology. Our team members have access to dedicated spaces where they can perform their work in a collaborative and supportive environment.

Job Description

As a member of our scientific team, you'll play a critical role in fulfilling our service programs and research agenda. As a Scientist of Computational Biology, you'll have the opportunity to:



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- Work with cutting-edge technology in microbial sequencing and imaging.
- Develop novel approaches for image analysis and probe design.
- Design and construct detection panels for microbial communities.
- Perform analysis for a variety of bioanalytical assays, including targeted amplicon sequencing, metagenomic sequencing, and FISH.
- Work closely with assay development staff to analyze data.
- Analyze data from quantitative assays to validate our technologies.
- Train junior scientists and trainees in technician roles to conduct research proficiently.
- Work directly with senior management on scientific milestones to shape our R&D program.

The ideal candidate for this position should have a Ph.D. in genetics, computational biology, computer science, physics, mathematics, or a related field and at least 5 years of experience in computational biology and data analysis. The candidate should have strong analytical skills and be well-versed in sequencing data analysis generated from popular platforms, including Illumina, PacBio, and Nanopore. Additionally, experience with processing and analyzing spatial 'omics data, including those generated by FISH-based imaging and popular commercial platforms, is essential.

The successful candidate should also have experience in designing oligo probes for nucleic acid abundance measurements and be experienced in applying machine learning models to augment their analytical pipelines. The candidate should be proficient in a variety of programming languages, including Python, R, Julia, C++, or others. The ideal candidate will have a strong background in developing and applying bioinformatics analysis to sequencing data and be experienced in using sequencing, imaging, and spatial 'omics data in hypothesis-driven biological research.

In addition to technical expertise, the ideal candidate should have experience leading a small scientific team and a record of independent research. Excellent communication skills (both written and verbal) and experience presenting scientific data are essential.

While we prefer the scientist filling this position to be present in person to best be an integral part of our team's ongoing research efforts, we are open to considering hybrid remote/in-person work arrangements in some cases.

At Kanvas, we offer a competitive salary and benefits package that includes full medical, dental, and vision insurance packages for employees and their families, and paid time off.

If you're passionate about biotech and want to join a dynamic and innovative team, we encourage you to apply for this exciting opportunity. Please send your CV and a brief paragraph about why you think you'd be a good fit for the job to phil@kanvasbio.com.