

Job Title: Biochemist

Applied Materials is an innovation-driven company. Our ability to identify emerging technologies that can complement and leverage Applied's materials engineering expertise early, is critical to the company's continued growth.

Project Description:

Applied Materials is working on a biotechnology development project involving imaging of biological samples with local partners in Singapore. The project will involve engineering instrument development, as well as biological process workflow development. The team will consist of Life Science and Engineering professionals from both Applied and our partners. There will also be extensive collaborations with external research and contract engineering organizations.

Job Summary:

In this challenging but rewarding career opportunity, you will develop and optimize DNA probes for use with a sophisticated bio-imaging system. This requires you to:

- Work with Technical Directors, Program Manager and Assay Scientist to design, develop and optimize DNA probes for use with biological assays (50%);
- Develop QC processes for testing probe libraries synthesized by suppliers or in-house (15%)
- Work with alpha users and customers to design probe libraries for specific genes of interest (15%);
- Work with the Program Manager and Assay Scientist to review, interpret, integrate and present experimental data both internally and with our research collaborators (15%);
- Train Assay Technicians on the correct handling and preparation procedures of probes for assays developed by the Assay Scientist (5%).

This position will report directly to the Program Manager in Singapore. The position is based in Singapore, and will require travel.

Education and Experience:

PhD in a Life Sciences field with at least 3 years of working experience in gene expression profiling, oligonucleotide probes, and/or cell or tissue imaging technologies. Knowledge and experience in designing, optimizing RNA FISH probes a plus.

Key Competencies:

- Strong knowledge of biology, chemistry, and analytic technologies
- Experience in the development of custom gene panels and assays

- Working knowledge of nucleic acid hybridization, PCR, gel electrophoresis, library generation (primer design), and bioconjugation.
- Experience in development of new methods and technology procedures
- Project Management – Skill and experience developing timelines for projects and tracking projects, as well as managing multiple stakeholders including external collaborators.
- Excellent written and verbal communication skills
- Fluent in English

Please send your CV to: -

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