



R&D Scientist, Synthetic Biology, Agilent Laboratories, Santa Clara, CA

Become part of an innovative multidisciplinary team developing next generation technologies for Synthetic Biology. Agilent Laboratories, Agilent Technologies' central research laboratories in Santa Clara, CA is seeking a Scientist for the Molecular Tools Lab to join an interdisciplinary team comprising, chemists, biochemists, molecular biologists, cell biologists, computer scientists, mathematicians, physicists, and engineers working to invent and develop advanced measurement systems, bio-reagents and informatics tools for emerging synthetic biology applications and workflows including pathway engineering, genetic device, network or system engineering, biosensor development and the development of highly engineered organisms.

As part of this team, build upon a strong working knowledge of metabolic engineering, related device and/or network design, construction and characterization to investigate and define novel measurement tools and reagents. The candidate will also establish and lead strategic collaborations between Agilent Labs and external researchers to develop and validate the methods.

In the course of developing these measurement systems, collaborate with Agilent Labs' computational biology and informatics experts to evaluate opportunities for creating new data analysis and visualization tools in order to provide an integrated solution for synthetic biology workflows.

Communicate progress and results to management and technical leadership, to selected external organizations and, when appropriate, to the general scientific community via presentations at scientific conferences and in peer-reviewed publications.

REQUIRED QUALIFICATIONS:

- Ph.D. in Bioengineering, Biochemistry, Molecular Biology, Biology, or other relevant field plus minimum 2-3 years post-doctoral, academic or industrial experience (or equivalent).
- Demonstrated expertise in one or more of:
 - pathway or metabolic engineering, network engineering or biosensor development.
 - refactoring genes, gene clusters, devices, networks or systems.
 - designing, constructing and characterizing engineered components including engineered promoters, ribosome binding sites, terminators, and assembly components.
- Demonstrated initiative in forefront achievements in life sciences research as evidenced, for example, by high profile peer-reviewed publications, patents or invited talks.
- Demonstrated success innovating and developing and/or utilizing new or emerging technologies in the area of synthetic biology.
- Demonstrated initiative and pursuit of successful collaborative research projects with interdisciplinary and inter-institutional teams.
- Strong problem solving and quantitative data analysis expertise.
- Excellent communication and teamwork skills.

DESIRED QUALIFICATIONS:

- Working knowledge of molecular biology relating to nucleic acid manipulation and characterization.
- Working knowledge of microbial genetics including transformation and recombination.
- Experience with various modeling and analysis software.

We invite you to please visit www.jobs.agilent.com and apply directly to **requisition 2037281**. Candidate must have work authorization.