



working on more than one project simultaneously. This individual will work directly with the Founding team to define study objectives and to participate in executing these studies.

-The chemist will perform synthesis, purification, and characterization of polymers and all related research and development activities.

-The position will be based in multiple work locations.

-Free shuttle service is provided from the Downtown BART station and around UC-Berkeley Campus to the lab. Some other travel will be required within Berkeley.

-Required start date is September 2017, but no later than October 1, 2017.

-Salary dependent upon experience.

Qualification

Desired:

- Ph.D. (or equivalent working experience) in organic, synthetic, or polymer chemistry.

- Department of Defense SBIR has hiring regulations: please U.S. Permanent Residents and Citizens only

- Enthusiasm to work in a fast-paced, very flexible start-up environment

- Eager to learn, self-motivated, flexible, accountable and effectively handle multiple tasks.

- Work independently in a small team research environment within a larger national laboratory.

- Takes initiative to improve work processes, develop innovative scientific methodologies and approaches to enhance research productivity.

- Compliance with all EHS regulations at national laboratory level

Technical Requirements:

- Demonstrated research ability in polymer, and organic synthesis.

- Full working knowledge with typical polymerization methods (RAFT, ATRP, etc.)

- Must have experience with synthesis of hydrogel components, probing conditions of formation, etc.

- Able to implement advanced synthesis to increase yield and efficiency.

- Modification of natural polymers and hydrogel backbones

- Synthesis and probing of stimuli responsive gels and polymers.

- Rheology measurements.

- Monomer synthesis

- Experience with polymers used in regenerative medicine a major plus.

-Research to Market experience greatly desired.







fermentative production of commodity and specialty chemicals. Lygos identifies expensive, environmentally hazardous, and harmful chemical and petrochemical production processes used today and develops safe, renewable routes to the same products. Lygos is seeking to hire a skilled scientist to support its analytical needs in support of the development of new strains and processes to efficiently produce a variety of products.

## Position Description

The successful applicant will be expected to develop and support ongoing analytical chemistry needs. The successful applicant will also work as part of a collaborative team to develop and scale up new manufacturing processes. The successful applicant will be expected to work collaboratively with multiple development teams to meet various analytical needs.

## REQUIREMENTS

### Responsibilities

Lead ongoing analytical chemistry efforts at Lygos

Maintain several analytical instruments (e.g. HPLCs, GCs, titration equipment) and troubleshoot analytical issues as they arise

Maintain instrument calibrations and inventories of consumables + spares

Queue analytical sequences and organize scheduling of analytical operations to meet needs of multiple user groups

Perform data analysis and engage in technical discussions and research planning

Develop new analytical assays and associated protocols for in-house use

Develop analytical methods for manufacturing QC and ensure methods are implemented reliably at external production sites

Provide process diagnostic support, e.g. identification of unknown components in process materials, outsourcing analysis to identify + address process issues

Education, Experience, and Position Requirements:

B.S. or M.S. degree in chemistry, chemical engineering, or related field

Minimum 3 years experience in analytical chemistry supporting R+D, 5+ years experience preferred

Strong hands-on technical abilities for maintaining and repairing analytical chromatography equipment

Experience with multiple analytical technologies (e.g., HPLC, LC-MS, GC-MS, Karl Fischer titration, ICP-MS, NMR, etc.)



More Information:

[https://www.cirm.ca.gov/our-progress/awards/tool-rapid-development-clinical-grade-protocols-dopaminergic-neuronal?mc\\_cid=c8536a99aa&mc\\_eid=\[UNIQID\]](https://www.cirm.ca.gov/our-progress/awards/tool-rapid-development-clinical-grade-protocols-dopaminergic-neuronal?mc_cid=c8536a99aa&mc_eid=[UNIQID])  
[http://www.scaledbiolabs.com?mc\\_cid=c8536a99aa&mc\\_eid=\[UNIQID\]](http://www.scaledbiolabs.com?mc_cid=c8536a99aa&mc_eid=[UNIQID])

About Scaled Biolabs:

Scaled Biolabs accelerates discovery and translation of cell therapies, to improve quality of life through regenerative medicine. Our core technology uses a miniaturized cell culture lab which runs nearly 10,000 experiments in parallel, and an advanced bioinformatics platform that turns single-cell resolution data into deep biological insight. We use this optimization engine to relieve the R&D bottlenecks of companies bringing on complex, advanced medicines such as cell therapies. We are a pre-seed stage, revenue positive, Indie Bio graduate company, and will be based at QB3@953.

Type: Full-time, starting immediately.

Qualification

Requirements:

- Experience with microfluidics for cell culture and analysis
- Bioengineering skillset with particular applications in stem cell developmental biology
- Solid publication and patent record
- "Process improvement" mindset and willingness to capture metadata to improve not just the science, but our fundamental approach as well
- Enthusiasm for diving into non-standard, cutting-edge tools and techniques
- Ability to complement academic rigor with a make-it-happen attitude to drive tangible results in a startup environment
- Work authorization in the United States

Beneficial:

Either:

- a) Master's or Ph.D. in biological or chemical engineering
- b) B.Eng with some years research experience in academic or industry environment
- High-throughput or high-content screening experience

