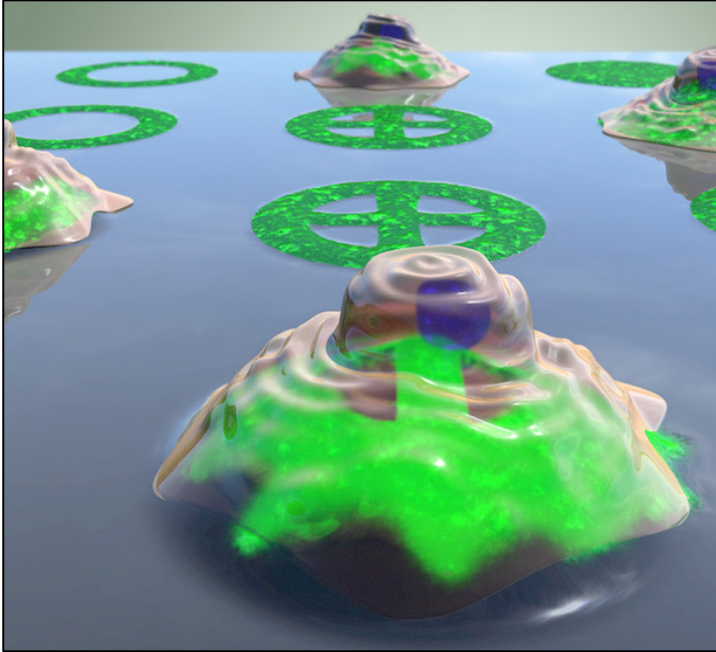


## Job opening for a Junior Development Engineer focused on High-throughput Screening

Opportunity to help develop and test a novel micro-engineered phenotypic screening platform. Possibility for further growth at UCLA or in a startup environment. Visit [hr.mycareer.ucla.edu](http://hr.mycareer.ucla.edu) to apply. Job requisition number **25213**



The Jr. Development Engineer in the Di Carlo Lab will primarily work under the supervision of a senior PhD student to perform high-throughput drug screens using a novel phenotypic assay developed at UCLA. Key responsibilities include fabrication and assembly of biological assay components using advanced microfabrication techniques, processing image data using proprietary software and maintaining sensitive cell cultures. This person will report directly to Professor Di Carlo and PhD student and work independently within a shared lab space and a cleanroom to prepare ready-to-use biological substrates on an on-demand basis, and utilize them in high-throughput cell-based drug screens. This position requires a self-motivated, ambitious and flexible individual with extreme attention to small details and the ability to follow standard operating procedures exactly, as well as the ability to work in a busy and rapidly changing product development and manufacturing environment. Opportunities for intellectual contributions to assay development once basic skills are mastered.

Position will initially be a one-year contract with compensation commensurate with experience level. Possibility for further growth at UCLA or in a startup environment depending on performance and ability to contribute. This is a great opportunity to be at the ground floor for the creation of a biotechnology/ drug development company.

### **Responsibilities:**

- Fabricate screen-ready biological substrates using cleanroom/ microfabrication processes, and biological techniques
- Work with drug screening experts to optimize screening workflow (order of operations, equipment, physical and biological parameters)
- Maintain sensitive primary cell cultures – including passaging and freezing/ thawing cells as needed
- Purchase and maintain inventory of critical assay materials
- Prepare cell culture media as needed
- Execute image analysis code
- Create reports to document analysis results and designs
- Design and execute engineering tests and experiments
- Perform root cause analysis on failures

### **Qualifications:**

- **Previous cleanroom experience (*required*)**
- BS and/or MS in mechanical, biological, or similar engineering field (3.5+ GPA) (*preferred*)
- Exceptional hands-on mechanical ability and inclination (*required*)
- Hard working and detail oriented (*required*)
- MATLAB knowledge (*preferred*)
- Able to apply engineering principles and techniques to solve a variety of problems (*preferred*)
- Cell culture experience (*preferred*)
- Understanding of basic biological and cellular processes (*preferred*)
- Self-motivation and accountability (*required*)

**Contact Ivan for more information: [pushivan9@gmail.com](mailto:pushivan9@gmail.com)**