

## Research Assistant

We are seeking a motivated and independent research assistant to support the development of a microfluidic device to measure cytokine secretion and phosphorylation of intracellular proteins in single cells. The successful candidate will be part of collaboration with Prof. Rong Fan's research group (<http://www.eng.yale.edu/fanlab/>), with opportunities for co-authorship on resulting publications. To support this collaboration, the research assistant will manage an extensive library of immuno-reagents. In addition, the RA will be trained to fabricate micro-fluidic devices, use these devices to perform experiments, and then validate experimental results using traditional cell-based immunoassays, including enzyme-linked immunosorbent assay (ELISA) and Western blots.

### Requirements:

- B.S. in Biology, Biomedical Engineering, or related field, and 2 years of related work experience.
- Previous experience in one or more of the following: enzyme-linked immunosorbent assays (ELISA), Western blots, mammalian tissue culture, fabrication or use of micro-fluidic devices.
- Previous lab management experience preferred.
- Proficiency in Microsoft Word, Excel, and Powerpoint.

### General principal responsibilities include:

1. Researches and collects data through complex laboratory/scientific experiments, techniques, and procedures; library research; structures interviews; or through other means for research projects.
2. Interprets, synthesizes, and analyzes data using scientific or statistical techniques. Modifies and plans research experiments, procedures, tests, or survey instruments. Assists in research design.
3. Writes and edits material for publication and presentation. Reports on status of research activities. Oversees and instructs research and support staff on technical procedures, equipment operation, and laboratory maintenance.
4. Schedules and coordinates research activities. Sets up, operates, and maintains laboratory equipment and apparatus. Modifies equipment according to experimental specifications. Identifies and recruits study participants. Orders and maintains inventory of supplies.
5. May monitor hazardous work areas and laboratory safety. Prepares related reports. May prepare financial information and monitor budgets.
6. Performs additional functions incidental to research activities.

Assignment start date: 7/1/12 or ASAP

Assignment duration: 1 year with the potential for continuation

Full-time; standard work week

Yale candidates: please apply through HR.

Non-Yale candidates: please email your CV, including contact details for three references to [kathryn.miller-jensen@yale.edu](mailto:kathryn.miller-jensen@yale.edu).

*Position pending final Yale approval*