



Industry Internships for PhD Students

Administrative Structure

The [UC Davis Biotechnology Program](#) oversees the [Designated Emphasis in Biotechnology \(DEB\)](#) doctoral degree program.

As part of their required coursework, PhD students in the DEB enroll in the [DEB282 Internship course](#), which is overseen by Prof. Abhaya Dandekar (Plant Sciences and DEB Faculty Chair) and Dr. Denneal Jamison-McClung (Director, Biotechnology Program). **For information on participating as an industry partner, contact dsjamison@ucdavis.edu.**

Internship Characteristics

DEB students receive guidance in finding professional internships which generally have the following characteristics:

- Offer a minimum of 3-months, full time work experience (~400 hours).
- Pay the “going rate” for an entry level science or engineering position (~\$25-\$35/hour, currently).
- Provide an opportunity for PhD students to refine professional and technical skills.
- Allow PhD students to build their network of professional contacts within the biotechnology industry prior to degree completion.

Over the past ~25 years, DEB students have completed professional internships with a diverse array of biotechnology companies, from small to large, across the United States and internationally. The timing and duration of DEB internships may vary according to the needs of the student, their faculty mentor and the host company, as long as the minimum of ~400 hours of effort is completed. The most common format is for DEB students to complete a 3-month, full time internship during the summer (~June 15 – Sept 15), in between the UC Davis Spring and Fall academic quarters. International students are constrained to the summer internship timeframe by their U.S. visa requirements, while domestic students have more flexibility to intern throughout the calendar year.

Recent and Past Industry Internship Partners

Industry partners contribute valuable training experiences and benefit by getting to know potential future employees. A small sample of recent and past industry internship partners are listed below.

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| • 10x Genomics | • Exelixis | • OncoMed |
| • 23andMe | • Genencor | • Regeneron |
| • Agilent Technologies | • Genentech | • Roche Biosciences |
| • Amgen | • Gilead | • Scios |
| • Amyris | • GlaxoSmithKline | • Second Genome |
| • Ariz Precision Medicine | • Guardant Health | • Synthetic Genomics |
| • Bayer Crop Science | • HM CLAUSE | • Sutro Biopharma, Inc. |
| • Bayer Health | • iBio | • Tethys Bioscience, Inc. |
| • BioMarin Pharmaceuticals | • Intrexon | • Theralink Technologies |
| • Celera AgGen | • Marrone Bio Innovations | • Upside Foods |
| • Cytokinetics | • Novartis (formerly Chiron) | • Ventria Biosciences |
| • DuPont | • Novozymes, Inc. | • Zymergen |
| • Eureka Therapeutics | • Ohalo Genetics | • Many others... |

Online Resources

For more details on the DEB282 course requirements and industry partnership for workforce development, see:

- DEB282 Internship Course Page: <https://deb.ucdavis.edu/internships>
- Biotechnology Program Partnership Page: <https://biotech2.sf.ucdavis.edu/internships>