# Tiffany R. Barbour

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## EXPERIENCE

**Genentech, Inc.** South San Francisco, CA
*Quality Supervisor* April 2014 – present

- Quality Assurance Lot Disposition (QALD) – South San Francisco Production, Commercial
  - Manage day-to-day operations for ten Final Reviewers and Product Managers, including scheduling and prioritization of disposition, project-support, and staff-development activities across Drug Substance and Drug Product manufacturing
  - Championed the development and implementation of a global business process instruction and local site-specific procedure for the interpretation and use of the general batch disposition requirements established in GSP016
  - Increased technical acumen of Final Reviewers and Product Managers by 20% over 20 months through cross-training, job shadowing, and mentorship opportunities within and outside of the QALD core function

**Genentech, Inc.** Oceanside, CA
*Process Engineer* July 2010 – March 2014

- Biochemical Manufacturing – Process Engineering
  - Provided engineering support to the Downstream Commercial Drug Substance Manufacturing operation via equipment troubleshooting, small- and large-project execution, and training for Manufacturing personnel.
  - Developed and maintained discrete-event simulations for all products made in the Oceanside facility to aid in run rate scenario analysis, bottleneck identification, equipment utilization optimization, and risk analysis around the Upstream, Downstream, and Utilities areas within the Manufacturing operation.

**Genentech, Inc.** South San Francisco, CA
*Operations Rotational Development Program (ORDP) Analyst* August 2008 – July 2010

- Biochemical Manufacturing – Oceanside Process and Automation Engineering
  - Developed discrete-event simulations for all products made in the Oceanside facility to determine maximum run rate capability, identify bottlenecks, and assess risk.
- Process Research & Development – South San Francisco Pharmaceutical and Packaging Engineering
  - Established the platform strategy for all future thermal profile development using a MATLAB model to predict the thermal response of small parcel shipping solutions to varying ambient conditions.
- Biochemical Manufacturing – South San Francisco Production Facilities
  - Reduced non-value-added activity time by 70% for the Instrument Calibration Paperwork Process and rolled out enterprise-wide improvements in partnership with the Operational Excellence Network.
  - Managed a 5-discipline cross-functional team to accurately map the current state process, conceptualize the future state, and communicate future-state process changes to colleagues.

**Sakiyama-Elbert Laboratory, Washington University in St. Louis** St. Louis, MO
*Undergraduate Researcher* June 2004 – May 2008

- *In vitro* research and development of a novel synthetic gene-delivery vehicle
- Independent project to determine vehicle efficacy in endosomal escape and nuclear targeting

## EDUCATION

**University of California, Berkeley** Berkeley, CA
- Master of Business Administration, Expected May 2017 — August 2014 – present

**Genentech, Inc.** South San Francisco, CA
- Quality Certified Professional, December 12, 2013 — January 2013 – December 2013

**Motorola University** Schaumburg, IL
- Lean Six-Sigma Black Belt Certification, December 5, 2011 — May 2010 – December 2011

**Stanford University** Stanford, CA
- Advanced Project Management Certificate, May 5, 2010 — November 2008 – May 2010
- Product Creation and Innovation Manufacturing Certificate, April 5, 2010
- Management Science and Engineering Certificate, April 5, 2010

**Washington University in St. Louis** St. Louis, MO
- B.S. Biomedical Engineering, May 16, 2008 — August 2004 – May 2008
- B.S. Chemical Engineering – Applied Science, May 16, 2008

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## INVITED TALKS

- "Debottlenecking an Automated MAb Facility", *ISPE LA Chapter Technology Summit and Northern Area Vendor Night – Debottlenecking Manufacturing Facilities Track,* Calabasas, CA, September 2013
- "Use of Modeling Tools", *ISPE Facilities of the Future Conference Series, Lessons from 483s: Enhancing Efficiency, Quality, and cGMP Compliance – Biotech Track,* Tampa, FL, February 2012

## PUBLICATIONS

- Moore, N.; Barbour, T.; Sakiyama-Elbert, S. Synthesis and characterization of four-arm poly (ethylene glycol)-based gene delivery vehicles coupled to integrin and DNA-binding peptide*s*. *Mol Pharm*, **2008**. 5(1): 140-150.
- Moore, N.; Sheppard, C.; Barbour, T.; Sakiyama-Elbert, S. The effect of endosomal escape peptides on in vitro delivery of polyethylene glycol-based vehicles. *J Gene Med.* **2008**. 10(10): 1134-49.

## SKILLS

**Technical:** Bio-G Simulation SuperUser; Proficient in MATLAB, Minitab, SAP
**Laboratory:** Cell/Tissue Culture, HPLC, MALDI-TOF, Functional Staining, Confocal Microscopy, Optical Mapping
**Language:** Familiar with Spanish

## HONORS, AWARDS, & ACTIVITIES

- International Society for Pharmaceutical Engineering (ISPE) January 2012 – present
  - San Diego Chapter, Member
- The National Society of Black Engineers (NSBE) August 2005 – present
  - Region 6 Professionals, Chairperson Emeritus
    - Mentored and advised the new Region 6 Professional Chairperson
  - Region 6 Professionals, Chairperson
    - Led an executive staff of 12 individuals who are responsible for the needs of over 400 technical professional members in terms of programming, social impact, job placement, and technical career development
  - Region 6 Alumni Extension, Chairperson-Elect
    - Led long range planning and performance evaluation activities
    - Provided leadership training to Chapter Chairs and Vice Chairs
    - Developed initiatives to increase collegiate and alumni membership retention and development
  - Washington University Chapter Pre-College Initiative (PCI) Chair & Vice President
    - Founded a Technical Out Reach Community Help (T.O.R.C.H.) Center
      - Coordinated free tutoring for K-12 students with local college students
      - Created and administered curriculum for free computer literacy courses for the surrounding community