

MEMO

From: Drs. Linda Hyman and Barbara Schreiber

To: Graduate students and postdoctoral researchers

RE: Internship opportunities at Vertex Pharmaceuticals, Inc.

We're pleased to let you know that one of our alumni, Dr. Edward Randles, has contacted us to reach out to all of you regarding internship opportunities at Vertex Pharmaceuticals, Inc. where Dr. Randles works as a scientist. Currently, there are several internship positions at Vertex that are accepting applications (<http://careers.vrtx.com/job-search/>).

These links should provide some additional information:

<http://careers.vrtx.com/universityRelations/internship/>

<http://www.vrtx.com/content/summer-internship-program>

Here's an interesting one focusing on using hydrogels for regenerative medicine applications but there are others as well. For additional information, please feel free to contact Dr. Randles at edward_randles@vrtx.com.

Hydrogel Characterization for Regenerative Medicine Applications.

Vertex is seeking a talented individual for an internship in our Drug Delivery Team in Formulation Development group. As a member of the Formulation team, this role will support formulation and method development of potential delivery systems. Specifically, the project will focus on method development and mechanical characterization of hydrogels using texture analyzer (hardness, cohesiveness, firmness, adhesiveness) and rheometer (elastic modulus, viscosity modulus, phase angle as function of shear force). In addition, an intern might be involved in understanding an impact of the hydrogel mechanical properties on cell-hydrogel interactions and build a model to mimic the effect of drug incorporation on hydrogel mechanical properties and cell-hydrogel interactions. This research would provide an intern an opportunity to gain practical experience in the pharmaceutical industry.

Key Responsibilities include but are not limited to:

- Literature searches and development of database of relevant scientific research for the unit operations of interest
- Become proficient with the equipment and design and execute experiments to enhance process understanding; physical characterization of generated formulations
- Assist with compiling and analyzing data; possible involvement in development of process models and model verification
- Maintain accurate and complete experimental records, providing timely laboratory notebook protocols, research reports and presentation to internal panel of Vertex scientists