

Posting Title: Principal Scientist - Biological Molecular Modeler - Vaccines Research

Posting Locations

Country	State	City
USA	CA	La Jolla

Responsibilities:

The Vaccine CoE seeks to discover novel vaccines (prophylactic and therapeutic) for the prevention and treatment of significant human diseases (infectious diseases, oncology, CNS and Allergy and Respiratory) using a variety of vaccine technology platforms combined with immunomodulatory agents. An experienced biological molecular modeller is required to join this newly established CoE to develop and support a range of antigen design challenges that will optimize humoral and cellular immunity as well as break tolerance to self antigens. The candidate will have experience with deriving models of critical amino acid bound to B cell receptors and MHC class I binding clefts and predict novel amino acid motifs to test for superior antigen properties, designing peptide libraries that increase antigenic diversity and B cell/CTL responses to generate to robust immune responses to wild type and mutated antigenic sequences, and creating predictive algorithms for enhanced immunity based on external and internal immune response data bases, and will have considerable knowledge of mathematical modelling of biological systems and strong practical experience. They will be able to independently and proactively apply this knowledge in the design and execution of experimental work, to enable progression of vaccines discovery projects. They will also be expected to act as a resource in applying their technical and scientific knowledge to the work of other scientists in the CoE and other therapeutic areas. Experience with deriving models of critical amino acid bound to B cell receptors and MHC class I binding clefts and predict novel amino acid motifs to test for superior antigen properties, designing peptide libraries that increase antigenic diversity and B cell/CTL responses to generate to robust immune responses to wild type and mutated antigenic sequences, create predictive algorithms for enhanced immunity based on external and internal immune response data bases would be required. It would be desirable but not essential to have experience of these techniques specifically applied to antigen design. The candidate will be required to work independently and, as a member of a project team, be accountable for the critical appraisal of their results and present them for review, at specific project milestones. The role is laboratory based. Please note that the managing supervisor is not yet known due to pending organizational refinements.

Qualifications:

PhD in a biological or chemical science with 5+ years of molecular modeling experience with focus on the immune system

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All applicants must have authorization to work for Pfizer in the U.S. In certain circumstances it may be advantageous to Pfizer to support the application(s) for temporary visa classification and/or sponsor applications for permanent residence so that a foreign national colleague can accept or remain in a work assignment in the U. S. For certain classes of temporary visas, the resulting work authorization may be specific to Pfizer and the specific job and/or work site. Pfizer may at its business discretion decide to or refrain from obtaining, maintaining and/or extending the temporary visa status and/or sponsoring a colleague for permanent residency and /or employment eligibility, considering factors such as availability of qualified U.S. workers and the colleague's long-term prospects for securing lawful permanent residence, among other reasons.

Employment applicants requiring immigration sponsorship must disclose, when initial application for employment is made, whether or not they are legally authorized to work for Pfizer in the U.S. and, if so, whether that authorization permits them to work in the job they seek. In no case should Pfizer's support of a colleagues temporary visa application or sponsorship of a colleague for permanent residence be construed to guarantee success of that application or amend or otherwise invalidate the at-will employment relationship between the colleague and Pfizer.

Imagine a career that touches the lives of people everywhere. Imagine an opportunity to reach beyond your area of expertise to make an impact on something greater than the bottom line. Imagine playing a key role in some of the most critical issues facing healthcare today. This is your career at Pfizer - a career unlike any other. To apply to this position, visit www.pfizer.com and refer to requisition #64320