

POSTDOCTORAL FELLOWSHIPS IN MOLECULAR IMMUNOENGINEERING

Candidates are sought for multiple postdoctoral fellowship positions in the laboratory of Professor John T. Wilson at Vanderbilt University. The **Wilson Immunoengineering Lab** (www.immunoengineeringlab.org) is working at the interface of molecular engineering and immunology to pioneer next generation therapies that harness the power of the immune system. ***Current projects are supported by several multi-year federal grants focused on the development of molecularly engineered therapeutics for cancer and other diseases.*** You will have the opportunity to lead the development of new immunotherapeutic technologies by bringing together expertise in chemistry, nanotechnology, pharmaceutical science, and immunobiology. The ideal candidate will have experience in at least one of two areas and meet the following qualifications:

1. Polymer Chemistry, Molecular Engineering, and Drug Delivery

- Ph.D. in Chemistry (e.g., Organic Chemistry, Polymer Chemistry, Pharmaceutical Chemistry), Engineering (e.g., Chemical, Biomedical, Materials Science & Engineering, Molecular), or related field.
- Have experience and expertise in at least one of the following areas: 1) polymer chemistry; 2) recombinant protein engineering; 3) lipid synthesis and lipid nanoparticle formulation; 4) nucleic acid chemistry.
- A strong publication record in polymer chemistry, materials science, biomaterials, nanomedicine, drug delivery, or related disciplines.
- Experience with in vivo evaluation of experimental therapeutics and/or drug delivery systems is desirable.

2. Immunology and/or Immunotherapy

- Ph.D. in Immunology or related field (Molecular/Cell Biology, Cancer Biology, Biomedical Engineering).
- Extensive experience with molecular/cell biology/immunology techniques and experimental design, including characterization of immune responses in mouse models of disease, is required.
- Publications in areas of immunology, immunotherapy, or cancer biology are highly desirable.

All candidates are expected to:

- Demonstrate strong oral and written communication skills.
- Be able to work well in a multidisciplinary, diverse, and collaborative research environment.
- Be highly motivated to publish rigorous and high-impact work.
- Have a genuine and infectious excitement for science, innovation, and creative thinking.

You will receive training in the cutting-edge and fast-developing field of Immunoengineering, and join a dynamic, interdisciplinary research team comprising chemists, bioengineers, immunologists, and translational scientists. Our lab is located in the **new, state-of-the-art Engineering and Science Building (ESB)** and you will also benefit from additional expertise and resources available on the compact and highly collaborative Vanderbilt campus, including the Vanderbilt Institute of Nanoscale Science and Engineering, the Vanderbilt-Ingram Cancer Center, and the Vanderbilt University Medical Center, to name only a few. The close proximity of diverse research expertise is a powerful contributor to the success of interdisciplinary and translational research at Vanderbilt, and will also provide you with rich opportunities for research, funding, and career networking. Vanderbilt University is located in Nashville, Tennessee, a thriving and growing city with major cultural, professional, and athletic institutions. Nashville, known as “Music City USA,” offers not only a world-class music scene, but also excellent food, breweries, museums, outdoor activities, and weather.

Compensation will be above NIH postdoctoral stipend guidelines and will include a competitive benefits and retirement package offered by Vanderbilt University. Postdoctoral researchers will receive a renewable, annual contract with the expectation of completing 2-4 years of training. Flexibility to pursue research in personal areas of interest, to apply for grants and fellowships, and to develop independent research directions will be encouraged. Interested candidates should assemble an application in a single PDF file consisting of a **i)** cover letter, **ii)** curriculum vitae (including a complete list of publications), **iii)** contact information for three references, and **iv)** two first author manuscripts that have been published or accepted for publication. The cover letter should include a description of the candidate’s relevant research experience, research interest, goals and expectations for the position, and preferred start date. The application should be e-mailed to Prof. John T. Wilson at john.t.wilson@vanderbilt.edu using the subject line “**Postdoctoral position in the Wilson Lab.**”