



Multiple Postdoctoral Positions Available *Bacteria-Responsive Biomaterials*

Description: The Shukla Lab at Brown University has multiple openings for postdoctoral researchers in the area of developing bacteria responsive biomaterials. Antibiotic resistance complicates treatment of bacterial infections and is a growing health threat. Responsive drug delivery systems can be used to effectively treat infection while helping control antibiotic resistance. Postdoctoral researchers will work on conceiving and synthesizing new bacteria responsive polymers that can be used for the development of antibacterial biomaterials. Postdocs will develop bacteria responsive biomaterials ranging from nano- to macro-scale structures using the newly synthesized materials and will evaluate antimicrobial efficacy.

Candidates should have a proven track record in research, should be able to drive research and contribute independently, and be highly motivated to work in a multidisciplinary research group.

Application Deadline: Open until filled

Position Start Date: March 1, 2019 (with some flexibility)

Applicant Qualifications:

1. Applicants should hold a Ph.D. in Chemistry, Biomedical Engineering, Chemical Engineering, or Materials Science (or related field) by start of the postdoc position
2. Experience with organic chemical synthesis and chemical characterization (such as NMR, HPLC, FTIR, MALDI, etc.) is required
3. Excellent written and verbal communication skills are required
4. A demonstrated publication record
5. Experience in materials characterization (e.g., AFM, TEM, SEM, DLS, DSC, mechanical testing, etc.) is highly preferred
6. Experience with biomaterials, drug delivery, antimicrobial materials, and bacterial and mammalian cell culture is preferred but not required

How to apply: Please send the following documents as a single PDF to Prof. Anita Shukla (anita_shukla@brown.edu) with the subject line "Postdoctoral candidate – your name"

1. Cover letter
2. Complete CV
3. Three or more references

About the Shukla Lab: The Shukla Lab for Designer Biomaterials is part of the School of Engineering, Center for Biomedical Engineering, and Institute for Molecular and Nanoscale Innovation at Brown University in Providence, RI. We are a diverse group of students and postdocs with backgrounds in Biomedical Engineering,



Chemical Engineering, and Chemistry, led by PI, Anita Shukla. The lab focuses on the development of biomaterials-based treatments for microbial infections. The lab is funded by the DoD, NIH, NSF, RI Foundation, and Falk Foundation. Learn more at www.designerbiomaterials.com