Pathway to the PhD

So, you like science but don’t know how to make it your career choice?

Does the idea of doing medical research interest you? Would you like to learn about modern research techniques? Do you understand how research and clinical training differ? Do you know how many career paths are open to research scientists? Do you want to learn the steps you need to take to obtain PhD training?

To get the answers, join us at Tufts during January break!
During January, you can spend three weeks at the Tufts Sackler School of Graduate Biomedical Sciences.

You will learn about different careers in biomedicine.
You will learn strategies for pursuing the career you want.

Career Workshops
• How to apply to summer research internships and post-bacc programs (you can be paid while you train!)
• How to apply to PhD and MD/PhD programs
• Write resumes that open doors
• How to finance your graduate education
• Career paths for PhDs

Laboratory Work
Week 1 – Nucleic Acids
Master basic lab skills
Isolate RNA, prepare cDNA, conduct PCR
Purify plasmid DNA, restriction digest, analyze by agarose gel

Week 2 – Proteins
Fractionate rodent liver organelles by centrifugation
Conduct SDS gel electrophoresis and immunoblotting

Week 3 – Lipids
Extract cellular lipids and analyze by chromatography
Analyze cellular lipid distribution by fluorescence microscopy

Enjoy a reception and dinner for students + families.