



Matthew Good, Ph.D.
Cell and Developmental Biology
Bioengineering

March 30, 2023

Senior Undergraduate Majors in Molecular or Cell Biology,

The research group of Matthew Good, Associate Professor of Cell and Developmental Biology at the University of Pennsylvania Perelman School of Medicine, seeks a full-time lab technician to carry out research and support for a 2 year period, beginning in June 2023.

Interested senior students should contact me directly at:

mattgood@pennmedicine.upenn.edu

215-573-1099 (office phone)

OVERVIEW: Challenge yourself intellectually and scientifically in cutting-edge research setting while preparing for graduate school or medical school.

Our laboratory is interested in cell growth regulation and how cells regulate their dimensions and the sizes of their organelles. The research is significant to understanding tumorigenesis and embryogenesis. We focus on vertebrate early embryo development, a period in which cells divide without growing and quickly change in volume. We are interested in how the embryo coordinates cell growth and division, mechanisms that regulate embryonic genome activation; further how epithelial cell size dysregulation contribute to tumor growth. Additionally, the lab characterizes RNA partitioning in cells particularly through via of membraneless organelles that assemble from disordered proteins, such as the case embryonic germ granules. The broader significance of our research lies in the fact that improper coordination of cell growth and divisions are linked to human developmental disorders, cellular senescence and cancer progression.

Website: <http://www.buenoscience.org/>

Twitter: @buenoscience

U.Penn Profile: <http://cdb.med.upenn.edu/people/matt-good/>

REQUIREMENTS

B.S. or B.A. in biology, chemistry, bioengineering, or related field (or degree completion by June 2023). Excellent communication and computer skills. Minimum of 1-year of previous laboratory experience. Experience in molecular biology, biochemistry, and fluorescence microscopy is a plus. *Previous technicians have successfully matriculated to medical school and graduate school.*

RESPONSIBILITIES

50% research and 50% laboratory support. Management duties will include laboratory ordering, supply and stock maintenance, preparation of common lab solutions, animal colony management and compliance with IACUC. Research requires mastering techniques from molecular biology including, cloning, RNA purification and qPCR. Additionally, biochemical techniques, including protein expression and purification; preparation of cell-free extracts; imaging – embryos and cells.

APPLICATION PROCEDURE

Contact me directly via email (mattgood@pennmedicine.upenn.edu), and have two letters of reference ready to be forwarded to me.

Regards,
Matthew Good