



A postdoctoral researcher position studying human islet biology is available in the laboratory of Dr. Ed Phelps (<https://www.bme.ufl.edu/labs/phelps/>). This position is for an initial one-year appointment and has the potential to be renewed for an additional three years based on performance and funding availability.

The postdoctoral researcher will work on currently funded NIH projects: R01 TBD "Mechanism and dynamics of islet GABA signaling" and HIRN UG3 DK122638 02 "Engineering a human microphysiological system for the characterization of islet-immune interactions". To this end, we are working with an interdisciplinary team to design three-dimensional (3D) microphysiological systems that model human type 1 diabetes pathogenesis on a chip. We are also developing live human pancreas slices and biosensor technologies for studies of islet physiology and the islet-immune cell interface. This position will build upon our recent description of a mechanism for gamma-aminobutyric acid (GABA) secretion from human islets (Menegaz et al. Nat. Metab. 2019).

A background in islet biology, neuroscience, or cell/molecular biology will be beneficial to the success of the project. Specific experience with the following techniques will aid the project: genetically encoded biosensors, molecular cloning, confocal microscopy, islet isolation and culture, islet physiology, conditional gene knockouts, and viral gene delivery.

Applicants should send a CV, a brief statement of interest, and contact information for two references to Dr. Phelps at: ephelps@bme.ufl.edu and complete the online application at Careers at UF (<https://facultyjobs.hr.ufl.edu/posting/78673>)