

## Staff Scientist: IBRI Diabetes Center

### Job Summary

A research **Staff Scientist** position at the Indiana Biosciences Research Institute is available in the IBRI Diabetes Center. We are looking for a highly motivated researcher to join the IBRI and help establish a satellite lab for Dr. Decio Eizirik. This lab will work with academic and industrial partners to clarify the mechanisms of pancreatic beta cell dysfunction and death in type 1 diabetes mellitus, with focus on endoplasmic reticulum stress, alternative splicing and other mechanisms that may contribute to beta cell death and generation of neoantigens.

The selected candidate will help recruit and lead a team responsible for working with primary human and rodent islets, animal models of diabetes and human beta cell lines, and advanced molecular biology techniques. A strong understanding of beta cell biology, including their adaptation to endoplasmic reticulum stress, is important as this individual will lead, in close collaboration with Dr Eizirik, a team working on this area. The selected individual will also contribute to the scientific reporting of findings in scientific publications and fundraising, including helping Dr Eizirik in the preparation of grant applications. This will require strong scientific writing ability.

### Responsibilities and Duties

Primary responsibilities include:

- Develop and conduct state of the art scientific experiments with human and rodent islets and cell lines, and animal models of the disease, independently, including:
  - Cell isolation/culture
  - Develop cell-based functional and viability assays for evaluating beta cell responses to stress.
  - Characterize gene and protein expression in stressed and physiological beta cells.
  - Overview on the maintenance of specific transgenic mouse models and on the performance of the required experiments with them.
- Accurately document and publish research findings
- Manage the technical, budgeting, and scheduling aspects of research projects
- Actively write and support applications for grants and sponsored research funding proposals

### Qualifications and Skills

Specific skills and qualifications for the position include:

- PhD in Biology, Biochemistry or a related field with at least 3 years beyond postdoctoral fellowship experience is required
- Strong skills in beta cell isolation/ culture is required
- Experience in developing assays is required
- Experience with *in vivo* animal models, including advanced transgenic models, is required

- Experience with flow cytometry is a plus

Interested individuals should apply online and include a cover letter.

### **Compensation**

Competitive salary and comprehensive benefits offered.

### **The Organization**

The Indiana Biosciences Research Institute (IBRI) is the first industry-inspired applied research institute focused on the discovery and development of innovative solutions to address major health concerns. Our initial focus areas include diabetes, cardio-metabolic disease, and poor nutrition. IBRI is structured as an independent, non-profit organization strategically positioned in Indianapolis: the center of Indiana's vibrant life sciences network of innovators including corporations, academics, and foundations.

IBRI is building an organization of premier entrepreneurial researchers and innovators. We are motivated to create discoveries that transform into solutions that positively impact people's lives. Our mission of "Discovery with Purpose" prioritizes recruiting exceptional talent, building a highly-collaborative culture, and establishing a diverse portfolio of projects and programs supported by industry, government, and philanthropic sources.