

## Research Associate at the IBRI Diabetes Center

Don't just research...**Discover!**

We are Indiana Biosciences Research Institute (IBRI). We deliver research that has a meaningful impact on the lives of people through new solutions that address diabetes, cardiometabolic diseases and poor nutrition. Working at the IBRI means being part of a team of renowned scientists who are helping to improve Hoosier health. It also means you are not alone. In addition to your experienced team members, you have collaborators from the Indiana life sciences ecosystem.

Our colleagues bring diverse ideas and experiences to our work, are dedicated to living out our mission every day and are passionate about their research. So passionate that it often carries out into the community through work with JDRF, volunteering at local nonprofit organizations and helping to educate the next generation of scientists.

The IBRI's vision is to build a world-class organization of researchers, engineers and business professionals that catalyze activities across the Indiana (and beyond) life sciences community. To achieve that vision, we look for curious and collaborative team members who are energized by innovation, guided by integrity and inspired by diversity.

### **The Opportunity:**

A **Research Associate** opportunity is available in the newly relocated laboratory of Dr. Carol Witczak. This lab aims to understand the cellular and molecular mechanisms underlying changes in skeletal muscle glucose transport and metabolism in response to type 2 diabetes and exercise. The candidate will assess physiological and metabolic changes in rodent models, as well as gene/protein expression changes in skeletal muscle tissues, in response to diet, surgical interventions and exercise. Advanced understanding of skeletal muscle physiology, the pathophysiology of type 2 diabetes and/or metabolic adaptations to exercise is important.

### **Responsibilities:**

- Develop and conduct scientific research experiments in support of the lab, including:
  - Mouse handling in experiments such as body weight, body composition, glucose tolerance testing and insulin tolerance testing.
  - Mouse skeletal muscle in vivo gene transfer utilizing electroporation or adeno-associated viruses.
  - Characterize gene and protein expression in mouse skeletal muscle in response to diet, surgical or exercise interventions.
  - Assess mouse skeletal muscle glucose uptake and metabolism using radioactive tracers.

- Accurately document research results and findings for use in grant submissions and/or research publications.
- Communicate the status of research efforts proactively and effectively with key stakeholders.
- Work with the team to maintain the supplies, equipment and institutional requirements for safety and lab operations.

**Qualifications:**

- BA/BS or MA/MS in Biochemistry, Physiology, Pharmacology or a related field is required.
- Must possess basic experience in general biological laboratory work (e.g., chemical buffer preparation, DNA/PCR assays, RNA/qPCR assays and protein/immunoblot assays)
- Minimum two (2) years of experience in a basic science research lab. Additional lab-specific experience, including:
  - Prior experience with rodent handling is required.
  - Prior experience working with skeletal muscle is preferred.
  - Prior experience assessing skeletal muscle contractile function is preferred.
  - Prior experience working with adeno-associated viruses is a plus.

**Compensation:**

Competitive salary and comprehensive benefits offered, commensurate with experience.

**Apply:**

Please visit us at <https://www.indianabiosciences.org/careers/> to learn more and/or apply for this opportunity.