

Research Associate - iPSC Lab

We are the Indiana Biosciences Research Institute (IBRI). We are a leading translational research institute that advances academic and industry science through collaboration to improve patient health outcomes. Building your career at the IBRI in Indianapolis' 16 Tech Innovation District, means being part of a team of renowned scientists, creative thinkers and innovative leaders.

Today's research is being driven by significant advances in our abilities to study complex disease processes and propose new ways to improve patients' lives. To reflect the evolving nature of life sciences research and encourage synergies through collaboration, we're enhancing our integrated capabilities, adding depth to how we approach patient-informed translational science and pursuing four foundational areas of scientific focus. These four areas will provide us the core talent and capability to pursue translational science in this new patient-centric framework:

- **Disease, Systems, Pathways** – We're working to better understand diabetes and identify new ways to combat the disease. We're applying this learning to other diseases that share common systems and pathways.
- **Molecular Innovation** – We're developing new capabilities for molecular design and drug discovery to investigate disease processes and pursue new therapeutic approaches.
- **Integrated Data Sciences** – We're pursuing advanced data sciences to create novel end-user inspired solutions that address complex analysis, simulation and prediction across the translational sciences.
- **Enabling Technologies** – We're building a rich platform of enabling technologies that give our scientists, partners and collaborators access to the best tools to solve complex scientific problems.

The IBRI's vision is to build a world-class organization of researchers, innovators 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:

The Enabling Technologies area has a Research Associate position available for an individual with training, knowledge and experience in the generation and differentiation of human induced pluripotent stem cells. Working in IBRI's iPSC lab, the Research Associate will be involved in collaborative research projects that include generation of iPSC lines from human fibroblasts and peripheral blood mononuclear cells and differentiation of these iPSC lines into various cell types such as β -cell-like cells, microglia, epithelial cells, Schwann cells and many other cell lineages for use in translational studies.

Responsibilities:

- Accurately document notes, the experimental methods and results.
- Conduct experiments with human iPSC-derived cells, including:
 - Reprogramming of skin fibroblasts or blood cells to iPSC,
 - Maintenance and differentiation of iPSC into various cell types to be defined,
 - Characterize gene and protein expression in iPSC and iPSC-derived cells at different stages of development, and
 - Transfect and analyze transgenic iPSC lines using different techniques including CRISPR/Cas9-based methods.

- Perform laboratory experiments and may be responsible for multiple research projects.
- Working with molecular biology design tools such as primer design, genome browsers, tools, sequencing analysis
- Maintain a detailed lab notebook, maintain accurate records, may modify protocols with the approval of the iPSC team.
- Review literature, publications and grants relevant to assigned projects.
- Present results at lab meetings and with external collaborators
- Monitor and order laboratory supplies.
- Prepare and label buffers, media, stock solutions for iPSC lab.
- Assist with budget for service and contract proposals.
- Perform other assays on-demand such as histology assays such as IF, FACS, qPCR, western.

Qualifications:

- BS or MA/MS Molecular biology, Bioengineering, Biology or a related field is required.
- Skills in cell culture, confocal microscopy and molecular biology are required.
- Experience with stem cell/iPSCs is preferred.
- Experience and skills in gene editing CRISPR/cas9 is preferred.
- Proficiency in Microsoft Office (Word, PowerPoint, Excel) is required.
- Must be open to learning new techniques.
- Good organizational skills and communication skills are required.

Compensation:

Competitive salary and comprehensive benefits offered, commensurate with experience.

Equal Employment Opportunity:

The IBRI provides equal employment opportunities to all employees and applicants and does not discriminate on the basis of age, race, color, religion, gender, sexual orientation, gender identity, gender expression, national origin, protected veteran status, disability or any other legally protected status.

Apply:

Please visit us at www.indianabiosciences.org/careers to learn more and/or apply for this opportunity. Interested individuals are encouraged to provide their CV/resume and a brief cover letter with their application.