Postdoctoral Fellow Analytical Chemistry in Single Cell Analytics Center

Job summary

A postdoctoral fellow position at the Indiana Biosciences Research Institute is available in the Single Cell Analytics Center, directed by Dr. Mike Pugia, and will report to Dr. Zane Baird as part of a team developing the next generation of multiplexable assays for cell-based and cell-free analytics. Researcher will utilize state of the art technology platforms developed at the IBRI to enable high-throughput, sensitive detection of biologically relevant targets in clinical samples.

Responsibilities and duties

Responsible for the formulation and application of nanoparticle-based reagent systems for biological sample analysis and the development of mass spectrometric, electrochemical, and fluorescent detection methods.

Duties include method development, reagent formulation, preparation of standardized protocol, clinical sample analysis, and development of analysis tools for multiplexed data. Researcher is expected to communicate results through regular publication in peer reviewed journals and to generate data to support new and existing patents.

Qualifications and skills

We are seeking an applicant who is highly motivated, enthusiastic, entrepreneurial and creative. Specific skills and qualifications for the position include:

- Knowledge and experience with mass spectrometry method development, data acquisition/analysis, and theory of operation (ion traps, TOF, FT-MS, QqQ, etc.)
- Experience with electrochemical-based assay development and data analysis for biological samples
- Background in immunochemical detection methods and antibody reagent formulation strongly desired
- Previous experience in the development of nanoparticle-based assays is desired
- Ability to handle and properly document biological samples for clinical analysis and storage
- Some experience or knowledge of microfluidics-based diagnostics preferred
- Postdoctoral PhD in Chemistry, Biochemistry, Biomedical Engineering, Biology, or related fields

Interested individuals are encouraged to provide a brief letter stating your accomplishments and interest in the lab’s research, curriculum vitae, and a list of three references.

Compensation

NIH scale plus benefits

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.