

Staff Scientist – Protein Biochemist

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' 16Tech 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 Staff Scientist position available for a talented individual with training, knowledge and experience in protein expression, purification and analysis for the purpose identify and developing novel tools, biomarkers and protein therapeutics. As a Staff Scientist in the IBRI Protein Therapeutics group, you will serve as a technical Subject Matter Expert (SME) to carry out the identification and evaluation of fit-for-purpose approaches for the generation and expression of reagent proteins to address individual IBRI project needs. This position will also take a leadership role in discussions with external partners and oversight of technology collaborations.

The position will be highly cross-functional and will build and maintain effective collaborations with IBRI researchers/collaborators. Success in this role will be measured by the ability to drive scientific excellence in a team setting through participation in applied research projects leading to publications, funding, patents, tools and innovation. This position will directly assist the IBRI's financial sustainability by participating in grant application, sub-contract budget preparation and sponsor project scope of work proposals.

This position is ideal for you if you want to work in an innovative institute in the middle of a technology district with opportunities to interact with other life sciences organizations in the region.

Responsibilities:

- Express and purify wild-type or engineered proteins for variety of project uses.
- Design and/or generation of display libraries in multiple formats (phage, yeast, mammalian).
- Apply immunization-based antibody discovery techniques with the associated, B-cell isolation, hybridoma generation, selection, cell culture and high-throughput screening.
- Perform antibody sequencing from phage display, hybridoma and/or single B-cells.
- Characterize antibody properties through various techniques for affinity and activity.
- Identification and evaluation of novel platforms for the expression of recombinant proteins.
- Engage external technology partners and internal cross-functional teams, assisting with the design and providing oversight of collaborative efforts.
- Protein purification (mAbs, therapeutic proteins, reagent proteins, peptides) by affinity or other technique including but not limited to size-exclusion, ion-exchange, and hydrophobic interaction chromatographic techniques.
- Analytical characterization of proteins by SDS-PAGE, CGE, Western Blot, ELISA and analytical SEC.
- Prepare precise technical report summaries, protocols, analysis and maintain appropriate documentation.
- Maintain high scientific rigor and attention to detail in testing hypotheses and analyzing data.

Qualifications:

- PhD or equivalent in scientific discipline with emphasis in protein engineering, cell biology, molecular biology or related field.
- Training and demonstrated proficiency in cell biology and aseptic cell culture with a wide variety of cell types.
- Working knowledge in molecular biology, cloning and protein analysis techniques (SDS-PAGE, Western Blot, ELISA).
- Recombinant protein expression experience in prokaryotic (E. coli) and eukaryotic (yeast, mammalian) systems.
- Experience in the generation and characterization of phage, yeast and/or mammalian display libraries.
- Experience with gene editing and cell manipulation for enhanced / engineered protein production.

- Ability to work independently and as part of a team, exhibiting self-motivation, adaptability, and a positive attitude.
- Excellent written, verbal and interpersonal communication skills including tact, diplomacy, and flexibility in order to work and interact effectively with staff, researchers, and management in various forums.

Additional preferred qualifications:

- Demonstrated ability working in a multi-disciplinary team to drive the identification of new molecular entities for translational outcomes.
- Superior experience in generating SOP and documentation required to provide guideline to team members.
- Experience in working in multi-center, multi-discipline, milestone-driven projects.

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 <https://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.