The Bioinformatics and Computational Biology (BCB) Core in the Indiana Alzheimer's Disease Drug Discovery Center (AD3C) seeks a highly motivated Postdoctoral Fellow in bioinformatics and computational biology. Candidates with a PhD degree in any of the following areas of computational biology, bioinformatics, biostatistics, machine learning/AI, bioengineering, electrical engineering, mathematics, and/or related areas are encouraged to apply. A background in translational bioinformatics, machine learning, or data mining, with experience in one or more areas of gene network analysis, integrative omic analysis, biomedical image analysis, systems biology, genomic data analysis, drug repurposing, target discovery are desired. The Postdoctoral fellow will work with Drs. Kun Huang and Jie Zhang as well as other investigators on developing and implementing bioinformatics and systems biology methods and algorithms for analyzing and integrating data from multiple resources to enable discovery of new drug targets for Alzheimer's disease.

About our labs: Our laboratories focus on developing advanced bioinformatics, imaging, machine learning, and visualization algorithms and tools for integrating multimodalities of biomedical data for disease biomarker and drug target discovery in diseases such as neurological diseases and cancers. Dr. Huang's lab is in the Department of Biostatistics and Health Data Science. Dr. Zhang's lab is in the Department of Medical and Molecular Genetics.

About AD3C: The Indiana University School of Medicine Alzheimer's Disease Drug Discovery Center (AD3C) is part of the NIA TREAT-AD initiative. Its strategic goal is to integrate sophisticated capability for early drug discovery and contribute to a broader study of emerging Alzheimer's Disease target hypotheses with the goal of generating new classes of potential therapeutics. Specifically, the AD3C will establish itself as a strategic and operational partner for the NIA AMP-AD and MODEL-AD initiatives. By design, this will provide drug discovery capability to bridge the foundational work in target discovery (AMP-AD) with newly discovered lead molecules characterized in AD animal models based on human pathology, genetics and translational biomarkers (MODEL-AD). Collaborating sites include Indiana University, Purdue University, and University of Pittsburgh.

About the School and Department: The Indiana University School of Medicine https://medicine.iu.edu/ is the largest medical school in the US and is annually ranked among the top medical schools in the US by US News & World Report. Please visit https://medicine.iu.edu/biostatistics for additional information about the Department of Biostatistics and Data Science.

About Indianapolis: Indianapolis is the 12th largest city in the nation and the state capital. The cost of living is below the national average despite tremendous growth. The surrounding suburbs have been ranked the #1 place to live in the country and are consistently ranked in the top 25 year after year. The city enjoys a vibrant and growing art, music, and food culture, as well as internationally recognized amateur and professional sports team and auto racing. Please check out Visit Indy or No Mean City to learn more about Indianapolis.

Indiana University is strongly committed to achieving excellence through cultural diversity. Candidates must be sensitive to the needs of and possess an interest in working in an academic community that is diverse with regard to gender, race, color, ethnicity, nationality, sexual orientation or identity, disability status, protected veteran status, and religion. Indiana University is a provider of ADA services.

Basic Qualifications: The candidate should be highly motivated with a PhD in the area of Candidates with a PhD degree in any of the following areas of computational biology, bioinformatics, biostatistics, machine learning/AI, bioengineering, electrical engineering, mathematics, and/or related areas are encouraged to apply. The candidate is expected to be skilled in bioinformatics or biomedical image analysis, machine learning, and computer programming (R and Python) with demonstrated publication

record in areas such as bioinformatics, computational biology, biomedical image analysis, or machine learning. The candidate should also demonstrate good communication skills and scientific writing capability.