

# Example research topics of internship topics

This is not an exclusive list and internships in other areas may be possible based on intern interest and research/mentor availability. Please note, that acceptance into the program does not guarantee an internship in one of these area of work.

## **Notre Dame**

Analytical Science and Engineering - focused on the discovery and design of new technologies to combat disease, promote health, and safeguard the environment.

Global Health – focused on advancing health standards for all people, especially those in developing countries who are disproportionately impacted by preventable diseases.

Drug Discovery and Design – focused on the computational modeling and synthesis, evaluation, and implementation of novel compounds to benefit human health.

Structural & Social Determinants of Health - focused on how social, economic, and environmental contexts shape patterns of health and wellness within communities.

## **Purdue**

Biomedical Engineering - focused on designing and testing cutting edge devices (implantable and wearable) and approaches to advance human health and its delivery.

Pharmacy Science – focused on the interface between chemistry and biology, pharmacogenomics, pharmacy economics studies the economic relationships within pharmacy and the health-care system.

Women's Global Health – serves as a nexus of interdisciplinary research to create partnerships, promote research, and develop training opportunities to improve the health of women globally. Focused on the prevention and early detection of diseases, rather than the classic medical model focusing on treatment, and research to understand sex-differences in health across the lifespan.

Veterinary Science - focused on comparative and translational research aimed at enhancing the health and well-being of animals and people in five signature research programs: Infectious Diseases and Immunology; Cancer; Neuroscience; Musculoskeletal Biology and Orthopedics; and Animal Welfare Science and Human-Animal Bond.

## **IU-Bloomington**

Social Determinants of Health –focused on social policy affecting poverty, welfare and access to housing/education and on health policy including areas of health insurance and social/structural barriers to health equity.

Health Data Analysis – focused on preventing disease and promoting the health and well-being of individuals, families, and communities. Areas of focus include applied behavior research, industrial hygiene, nutrition science, health disparities, sexual health promotion, addictive behavior, and behavioral wellness.

Artificial Intelligence/Machine Learning in Health- focused on research in health and biology that is exploring sociotechnical systems from micro- to macroscales at biological, environmental, physiological, individual, community, and global levels.

**IU-Indianapolis**

Clinical Research- focused on clinical studies (Phase I – III) in areas such as cancer (pediatric and adult), Alzheimer's Disease, Diabetic wound healing, Traumatic Brain Injury and Precision Medicine.

Translational Research- focused on basic and translational studies in areas such as cancer, neuroscience, diabetes, musculoskeletal.

Health Informatics – focused on utilizing data to address research questions such as clinical decision support, drug safety, healthcare data analytics, patient outcomes, quality measures, and implementation science.

Nursing Science - focused on improving the quality of health and life in areas such as cancer control, improving the quality of life in persons with chronic conditions, and improving the care of patients with serious and terminal illness through a focus on enhancing communication through their own work and in collaboration with colleagues.

Dental Science- focuses on areas such as bone/regenerative medicine, dental public health, dental informatics, dental material, dental implants, and oral and systemic health relationships.

Structural & Social Determinants of Health - focused on how social, economic, and environmental contexts shape patterns of health and wellness within communities.