Research with applications in detecting or treating abnormal cell growth.

Research to meet the health needs of a target population, epidemiology, public health, policy, human factors, management of information systems and personalized care delivery.

Research with applications in the aging process and fall prevention (e.g., bone health, arthritis).

Research using wearable hardware to monitor and prevent health problems, improving diagnostic accuracy, and predictive analytics.

Research involving biosciences and process engineering (e.g., using renewable materials to create bio-based products, improving the value of materials of pharmaceuticals).

Research and applications in the areas of sustainability, agriculture, fish populations, pollution control measures.

Research with applications in delivering medication to a patient in a manner that increases the concentration of the medication in some parts of the body relative to other (e.g., therapeutics, genomics).

Interdisciplinary research of data systems to extract and analyze evidence-based knowledge to make decisions.

Research within human use of their brain and cognition to activate the muscles in the performance of a motor skill (e.g., musculoskeletal analysis, biomechanics).