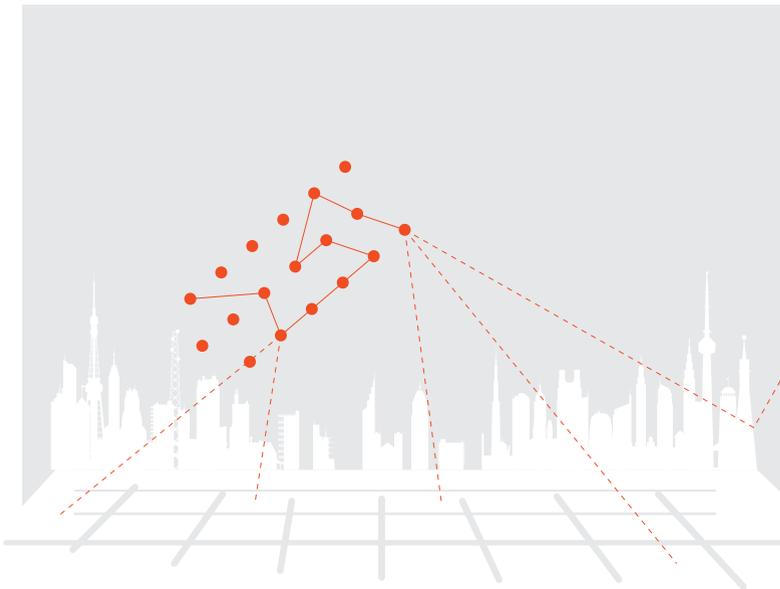# Biostatistics

Public Health Biostaticians, sometimes called numerical detectives, apply principles of mathematics, statistics, and the scientific method to help explain associations between exposures and disease or injury to improve human health. With these tools, they can compile and analyze data to report on health-related issues. They also use data to identify health trends in various communities and provide recommendations for effective health interventions. Public Health Biostaticians also use expertise in sampling and study design to provide epidemiologists or other health investigators with strategic guidance in the development of health-related programs or research projects.

In public health, a Biostatician might conduct research to identify trends of diabetes in obese children in a particular city, or analyze the effectiveness of a new drug in a clinical trial and publish findings in a journal sharing methods and outcomes.

DID YOU KNOW?

The research findings of Public Health Biostaticians in our state play a critical role in informing North Carolina policy makers of important health concerns in our state, like factors causing breast cancer or premature births, exposure to toxic chemicals in the workplace, or environmental protection recommendations.

Biostatistics

Specialization

clinical research, demography, epidemiology, statistical genetics, medicine or veterinary medicine, environmental sciences, wildlife research and much more

Work Environment

Local, state, and federal government agencies and departments, academic and research institutions, contract research organizations and much more
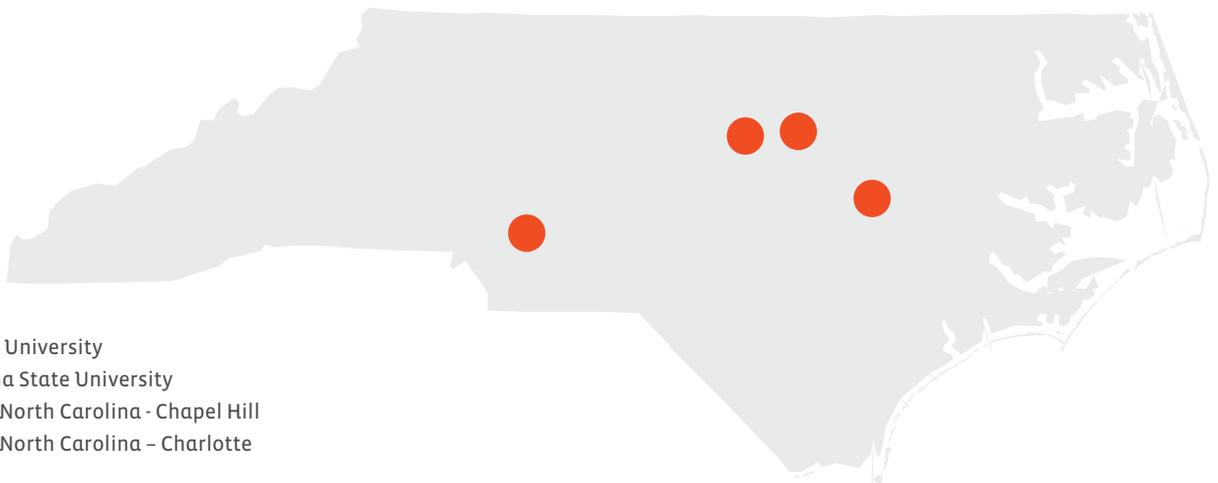
Education Requirements

The minimum requirement for becoming a biostatician is baccalaureate degree in math, science, computers, medical, biological or health sciences, however for more advanced opportunities and research positions, a master's or doctoral degree is required.

Potential Career Opportunities

Biostatistician | Researcher/Scientist | Project Manager | Data Analyst | Professor Epidemiologist | Pharmacoepidemiologist | Healthcare Informatics Researcher

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Where can I go to study Biostatistics?

- East Carolina University
- North Carolina State University
- University of North Carolina - Chapel Hill
- University of North Carolina – Charlotte