**Who:** The Lemas Lab within the UF College of Medicine in the Department of Health Outcomes and Biomedical Informatics is looking for talented informatics students interested in gaining experience with biomedical informatics methods and analysis of mom-baby linked electronic health records. The Principal Investigator, Dr. Dominick J. Lemas, Ph.D. has a research program focused on biomedical informatics and child-maternal health. Our group collects a variety of novel data types that include electronic health records, online surveys, high-throughput sequence data and high-resolution metabolomics data. This will be a paid position that requires a 2-semester commitment.

**Background:** Breastfeeding is associated with positive maternal-child health outcomes that includes reducing transmission of non-HIV infection such as COVID-19 from mother to baby. In the United States, rates of breastfeeding differ significantly depending on race and income status of mother. Given the complexity in breastfeeding disparities, there is an urgent need to develop breastfeeding interventions that include vulnerable and hard-to-reach populations. Electronic health records (EHRs) represent a unique data source that contains longitudinal clinical data that is linked to non-clinical data sources such as residential location, race, socio-economic status and other social determinants of health (SDoH). **The goal of this project is to leverage mom-baby linked EHR and biomedical informatics methods to estimate geospatial patterns in breastfeeding and characterize the SDoH that impact breastfeeding outcomes in vulnerable and hard-to-reach populations.**

**We are looking for a team member who:**

* Has a “roll-up your sleeves and get things done” attitude
* Takes pleasure in doing a task well for its own sake
* Has an interest in learning about biomedical informatics methods
* Is comfortable collaborating in a Team Science environment (e.g., presenting project status updates at weekly meetings or presenting at scientific conferences)
* Can work with multiple deadlines at once

**Benefits:** This opportunity is a CV builder with potential for co-authorship on peer-reviewed manuscript. Salary for position will be $15-20/hr depending on experience.

**Required experience:**

* Enrolled in degree program that provides a background in advanced statistical analysis of large data sets (includes, but is not limited to, economics, finance, statistics, mathematics or computer science).
* Programming experience in R and/or Python
* Experience with GitHub

**Nice to have experience (but not required):**

* Experience working with geospatial data in the “simple features” framework
* Experience working with EHR data

**Responsibilities:**

* Collect, wrangle, and visualize data, and maintain high levels of data integrity and accuracy.
* Update and manage a RedCap database; including data entry, electronic survey development, and report building for participants.
* Complete an independent research project based on available data
* Attend research meetings
* Develop research materials (figures, presentation slides, ect) that contribute to peer-reviewed manuscripts and research presentations.

**Time Commitment:** Approximately 10 hours a week

**Process to Apply**: Interviews will be conducted on a rolling basis. Please send resume/CV with cover letter describing your interest, qualifications and how your personal experiences can contribute to our team to Magda Francois (magdafrancois@ufl.edu). Links to your own GitHuB repositories, or repositories you have contributed to with specific contributions noted, that used R and/or Python will lend more credibility to your application, but not having them will not disqualify you.