

Vacancy Announcement: Statistician (Health)
Centers for Disease Control and Prevention (CDC)
National Center for Emerging and Zoonotic Infectious Diseases
Division of Preparedness and Emerging Infections
Arctic Investigations Program
Anchorage, Alaska

The CDC Arctic Investigations Program is recruiting a Statistician (Health) for the Biostatistics and Information Management Team in Anchorage, Alaska. This solicitation is for civil service personnel in job series 1530 or 1529 and external candidates.

Program description

The Arctic Investigations Program's mission is to prevent morbidity and mortality from infectious diseases in the Arctic and sub-Arctic, with special focus on diseases of high incidence and concern among indigenous peoples.

Priority activities include prevention of diseases caused by *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Neisseria meningitidis*, *Streptococcus pyogenes*, *Streptococcus agalactiae*, *Helicobacter pylori*, SARS-CoV-2, respiratory syncytial virus, and hepatitis A, hepatitis B, and hepatitis C viruses. Ongoing laboratory-based surveillance and cohort studies provide opportunities to describe long-term trends in these diseases and evaluate the impact and effectiveness of vaccines and other public health interventions.

The Arctic Investigations Program office is located in Anchorage, Alaska. We work closely with the Alaska Department of Health and Social Services, and with Tribal Health Organizations throughout the state. Arctic Investigation Program has a staff of 35 people, including epidemiologists, statisticians, and laboratory scientists. The program has a laboratory for microbiology, molecular diagnostics, and whole genome sequencing, and a bank of >500,000 specimens for supporting epidemiologic studies.

Position duties and responsibilities

- Serve as statistician on interdisciplinary teams involved in medical research studies. Work collaboratively with CDC epidemiologists, and laboratory scientists in designing research studies and conducting statistical analyses on an ongoing basis
- Assist with and oversee management of data associated with epidemiological research studies for quality control and fit-for-purpose assessment.
- Prepares internal and external reports and publications on results of statistical analyses and summaries.
- Conducts independent research to determine the most appropriate analytic techniques for the needs of a research study or protocol
- Consult with other internal teams and external partners, serving as a statistical resource for questions regarding infectious disease research within the State of Alaska. Partners include the State of Alaska, other Federal agencies, Tribal Health Organizations and University partners.

Required qualifications

- Masters of Science in Statistics or Bio-statistics
- Proficiency in a statistical software such as SAS, STATA or R.
- Scientific writing skills
- Extensive knowledge of statistical theory and applied methodology.
- Proven ability to work in a team environment
- Experience designing studies to test statistical hypotheses of interest
- Ability to stay current and up-to-date in emerging statistical theory and methods used in medical research studies

Preferred qualifications

- PhD in biostatistics or statistics
- Experience in the SAS system
- Experience analyzing health outcome data.
- Experience in analysis of large- national health datasets that require efficiency in computing and analytic resources
- Knowledge of statistical methods commonly used within the field of public health and epidemiology
- Skill and experience in written communication, to clearly communicate complex statistical results, to a range of audiences ranging from internal workgroups to journal publications.
- Experience in development of study design to include power calculations and determination of optimum sample sizes to address research questions
- Experience in development of data collection instruments and analysis and data management plans
- Experience in evaluating the suitability of electronic health record data for meeting health research objectives and hypotheses.
- Experience adapting statistical methodology in innovative ways to meet the needs of a specific research study
- Experience with commonly used statistical methods used in medical outcome research which include: survival analyses; poisson regression, repeated measurement methodology, survey sampling and infectious disease transmission models.

We hope to have the position post on USA Jobs in the next 2-4 weeks. For information and potential GS level, please contact: Dana Bruden at dbruden@cdc.gov or 907-952-0149