



State of New Mexico  
Classification Description

## PUBLIC HEALTH DATA SCIENTIST

---

### General Summary

A Public Health Data Scientist will use data management and statistical analyses to make health-related predictions and recommendations. The skillset will require using interdisciplinary approaches of data collection, modeling, and other methods to produce data tools, programming packages, modules, dashboards, websites.

### Public Health Data Scientist

**Jobcode: F10435**

**Pay Band: 80**

**FLSA Status:** FLSA status may be determined to be different at the agency level based on the agency's utilization of the position.

### *Recommended Education and Experience for Full Performance*

A PhD in Epidemiology, Mathematics, Statistics, Data Science, Economics, Health Informatics or related PhD field as it pertains to the essential duties and responsibilities of the classification. Three (3) or more years of relevant employment experience in a public health or health-care setting as it pertains to the essential duties and responsibilities of the classification.

### *Minimum Qualifications*

Master degree in Epidemiology, Mathematics, Statistics, Data Science, Economics, Health Informatics or related Master's degree field as it pertains to the essential duties and responsibilities of the classification.

### *Essential Duties and Responsibilities\**

- Conceptualize the design of databases, design the logical structure of relations involved with the databases, and collaborate with internal and external stakeholders to create database management systems.
- Develop and implement advanced population health analytics using primary data collected and additional secondary data sources to inform research on health status, utilization, cost, and quality comparative studies for NM.
- Create data algorithms and identify and classify components to identify problems and support solutions to the research questions of interest.
- Prepare data to be usable for a variety of public health purposes.
- Create or review statistical analyses and models in SAS, Java, Python or other analytical software. Use computational tools to gather and analyze data in fields such as population health, biology, genetics, and pharmaceuticals.
- Consult with other scientists, public health practitioners, and researchers to analyze data sets.
- Work within different medical science and health fields, including public health, medicine, informatics, biology, genetics, proteomics, and pharmaceuticals.
- Meet with stakeholder groups or policy boards to gain support for collection of data elements and improve completeness, validity, and reliability of information received and maintained in databases.
- Visualize and interpret data to effectively communicate results and findings to stakeholders and decision makers.
- Plan, organize, and prioritize projects, time, and workload assignments for a portfolio of informatics projects.
- Manages bureau/division informatics project portfolios and coordinates informatics priorities for areas of responsibility.
- Evaluates necessary changes in existing information resources to 1) ensure that comprehensive, valid, and reliable data are available for program research and evaluation, 2) comply with nationally-recognized data standards, and 3) assess information technology solutions.
- Oversees informatics activities, including development of use cases, business cases, and workflow analysis.

## PUBLIC HEALTH DATA SCIENTIST

- Database and data warehouse management.
- Document data science work flow of programming, data sources, database relations, and data dictionaries so the work may be reproducible and utilizable by colleagues.

---

**Bargaining Unit:****Statutory Requirements:****Conditions of Employment:**

**Working Conditions:** Working Conditions for individual positions in this classification will vary based on each agency's utilization, essential functions and the recruitment needs at the time a vacancy is posted. All requirements are subject to possible modification to reasonably accommodate individuals with disabilities.

**Established:** 12/06/2019

**Revised:**

---

*\*Essential Duties and Responsibilities are intended to be cumulative for each progressively higher level of work. The omission of specific statements does not preclude management from assigning other duties which are reasonably within the scope of duties. Classification description subject to change. Please refer to SPO website ([www.spo.state.nm.us](http://www.spo.state.nm.us)) to ensure this represents the most current copy of the position.*