



Data Scientist

ROLE SUMMARY

Under the supervision of the Deputy Chief Administrator of COPA's Policy, Research and Analysis Division (PRAD), the Data Scientist will be assigned to PRAD on a variety of data-related projects designed to support data driven patterns and practices investigations and policy recommendations and will perform related duties as required.

Location: 1615 W. Chicago Ave, 4th floor, Chicago, IL 60622

Days: Monday - Friday

Hours: 9:00am to 5:00pm

This position is covered by the collective bargaining agreement between the City of Chicago and the American Federation of State, County and Municipal Employees (AFSCME) and is in the career service.

ESSENTIAL DUTIES

- Uses data to support patterns and practices investigations, policy recommendation projects, and investigative improvement projects related to police misconduct.
- Accesses internal data systems using Structured Query Language (SQL) to explore, summarize, and analyze information, with the aim of identifying patterns or anomalies in police misconduct investigation data.
- Proposes data-driven patterns and practices investigations and policy recommendation projects and communicates with team members and others to determine project feasibility, deliverables, scope, timeline, reporting, and impact.
- Weighs the appropriateness, effectiveness, and feasibility of possible analytical methods/approaches and chooses the best one for a project's goal.
- Produces exploratory data summaries and visualizations to highlight topics for further data analysis, policy review, and/or collaboration.
- Identifies opportunities for capturing or collecting useful data for patterns and practices investigations, innovative ways of using existing data, and useful external data sources.
- Develops standardized methods for transforming, coding, linking, error-checking, de-duplicating, and combining structured, semi-structured, and unstructured data.

- Organizes and writes documentation for their data-related work and methods and summarizes that work for non-technical audiences.
- Contributes to the writing of policy recommendations, advisories, and research/analysis reports, where applicable.
- Works collaboratively with staff to identify, understand, and support the resolution of data quality issues.
- Utilizes cloud-based, collaborative environments to share and update information with team members.
- Develops and hones analytical, research, writing, and communication skills through feedback and training.
- Stays informed about related current events, policing innovations, and new advancements in data science.
- Shares work at related internal and external presentations, meetings, and conferences.

The list of essential duties is not intended to be exhaustive; there may be other duties that are essential.

MINIMUM QUALIFICATIONS

Graduation from an accredited college or university with a Bachelor's degree in Data Analytics, Statistics, Mathematics, Economics, Computer Science, or Information Technology/Systems or a directly related field, plus three (3) years of experience in data analysis or data management; or an equivalent combination of education, training, and experience.

“Accredited” means any nationally or regionally accredited college, university, or law school where the applicant is enrolled in or has completed an Associates, Bachelors, Masters, or Juris Doctorate degree program.