



**Office of the State Auditor**  
**DATA ANALYTICS FRAUD EXAMINER**  
**(Bureau of Special Investigations)**  
CSA 926 (Grade 11) (2 positions)  
Boston

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**Posting Number 2014-30-31**

**Salary Range: \$45,000 - \$60,000**

**GENERAL STATEMENT OF DUTIES:**

The incumbent is responsible for investigating fraudulent claims, transactions, and or complaints of unlawful receipt of funds within the public assistance programs in the Commonwealth of Massachusetts. The incumbent also is responsible for collecting, understanding, and analyzing information using a variety of tools, databases and data analysis techniques to detect fraud. This includes analyzing trends in data, patterns of behavior, accurately quantify and aggregate risk and succinctly communicate items of interest to management

The Data Analytics Fraud Examiner must also present conclusions in reports and answer questions about the data and finding, in order that the Director and other members of the Bureau of Special Investigations (BSI) may better understand information obtained.

**SUPERVISION RECEIVED:**

Work under the direct supervision of the Assistant Director overseeing the BSI Data Analytics team.

**SUPERVISION EXERCISED:**

None.

**DUTIES AND RESPONSIBILITIES:**

- Work with BSI, Audit Operations, and OSA's IT Department to identify data and analysis requirements for reports and data analysis projects.
- Proactively monitor and review electronic account and transaction data for suspicious activity and possible fraud.
- Identify and document existing trends and patterns in Medicaid claim data, Electronic Benefits Transfer (EBT) card transactional data, as well as a variety of other transactional and operational data sets
- Efficiently and quickly Identify anomalies / patterns in data
- Within data sets being analyzed, the examiner must identify relationships, outliers, conditions and other behaviors that may indicate an increased risk for fraud, waste or abuse.
- Document data models and protocols for mining production databases in conjunction with data owners and department managers.
- Identify sources of data and data fields for reports, mapping, and computations required to create metrics for reports.
- Review, investigate, and resolve irregular transactions and identify areas requiring increased security controls to protect an organization and its end users from future incidents of fraud.
- Apply quality assurance best practices for data mining/analysis services.



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- Develop, implement, and maintain change control and testing processes for modifications to data models.
- Keep detailed records of suspicious activity, analyze trends, communicate security threats to management, and provide recommendations for loss mitigation as needed.
- Meet regularly with Assistant Director regarding investigations and adhere to time lines as determined by the Assistant Director.
- Collaborate with staff at all levels throughout the OSA as necessary to perform data analysis tasks.
- Perform related work as assigned.
- Experience creating reports using Business Intelligence tools (e.g. – Information Builders, ACL, Cognos.)

**MINIMUM QUALIFICATIONS:**

- Bachelor's degree in criminal justice, public policy, public administration, or a related field. At least three (3) years' experience in investigations, research, analytics or related field.
- Ability to understand complex requirements and present data in an accurate, understandable and relevant manner.
- Ability to research and gather relevant information from trusted and accurate sources to prepare internal analysis and final reports.
- Demonstrated ability to communicate effectively, both orally and in writing.
- Proven analytical and problem-solving abilities.
- Highly self-motivated and directed.
- Ability to effectively manage workload and adjust to changing priorities.
- Experience with ACL or other data analytic software.
- Strong intermediate or advanced level skill with Microsoft Access.
- An intermediate level of skill using Microsoft Excel. Familiarity with the statistical, graphing, and "what if" functions of the application.
- Experience creating reports using Business Intelligence tools (e.g. Cognos)
- A strong understanding of data warehousing concepts and relational databases.

**PREFERRED QUALIFICATIONS:**

*Demonstrated experience and expertise in the following areas will also be important considerations:*

- Ideal candidate will have experience in the investigation of fraud in public benefits or other white collar crimes.
- Data analysis experience preferred
- Experience with or understanding of Medicaid claims data



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- A Master's degree in criminal justice, public policy, public administration or a related field, or substantial professional experience.
- At least 5 years full time or equivalent part-time experience, the major duties of which included: experience in investigations, auditing, data analysis, or has assisted in the development of investigative findings and/or the preparation of audit reports.
- Participation in major investigative engagements, or complex or specialized investigations requiring the application of technical knowledge and expertise.
- Professional licensure or certification in fraud-related field.

***No Phone Calls Please:***

To apply, please submit an electronic copy of a cover letter and resume along with a copy of [OSA's Voluntary Self Identification Form](#), no later than July 24, 2014 to [OSA.applications@sao.state.ma.us](mailto:OSA.applications@sao.state.ma.us)

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