



# OFFICE OF THE STATE AUDITOR

STATISTICAL ANALYST (HEALTH POLICY)

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**Posting Number 2013-27**

**SALARY RANGE (Grade 13): \$50,000 - \$70,000 (COMMENSURATE WITH EXPERIENCE)**

**GENERAL STATEMENT OF DUTIES:**

Core responsibilities are to provide statistical and analytic support to the policy and research efforts of the Office of State Auditor. The statistical analyst will be a key member of the team tasked with review and assessment of the impact of statewide cost-containment efforts to health care in the Commonwealth. In addition to health policy contributions, the statistical analyst will contribute to audit planning, policy research, and performance audits in other policy areas. The specific contributions will be: a shared responsibility for developing statistical analysis plans; the primary responsible party for implementing the SAP; the primary responsible party for identifying risks and weaknesses in statistical models and for improving these; the primary responsible party for interpreting data results, and other related tasks as needed.

**SUPERVISION RECEIVED:**

Works under the direction of the Health Care Policy Manager.

**SUPERVISION EXERCISED:**

May exercise functional supervision of other employees as needed.

**DUTIES AND RESPONSIBILITIES:**

- Research technical reports for data metrics, algorithms, and other key information contained in the reports;
- Contribute to the design of SAP, table shells, figures, charts;
- Identify data needed for analysis from multiple sources (e.g., claims data; hospital data; regulatory data, ACS, etc.);
- Draft business requirements for data analytics team, including required data and statistical methods;
- Identify statistical models appropriate for the data and the question;
- Assess statistical models and measures and validate calculations by others;
- Analyze and review statistical analyses;
- Analyze and interpret data findings;
- Write statistical sections of integrated reports or provide statistical input to policy reports and other documents;
- Design and provide tables, figures, and other visualizations to support understanding of statistical analyses for a general audience;
- Other duties as assigned to support the unit and other units within SAO.

**MINIMUM QUALIFICATIONS:**

*The successful candidate will possess and/or demonstrate:*

- Master's degree in statistics, biostatistics, applied mathematics, or related field. Or master's degree in social science discipline (e.g., public health or sociology) with a concentration in biostatistics, epidemiology, quantitative analysis, program evaluation;
- General knowledge of health care, health systems, or public health;
- 2-3 years of experience in applied statistical analysis;



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- Knowledge of intermediate statistical methods and ability to apply statistical techniques most well-suited for specific requests in a manner that ensures accurate and robust conclusions;
- Understanding of and ability to apply statistical techniques and build predictive models, such as linear regression, logistic regression, analysis of variance, cluster analysis, principal component analysis, and factor analysis to policy problems;
- Knowledge of applied statistics for the purposes of data mining, assessment of historical trends, and impacts due to policy changes in a variety of areas including: effectiveness, cost, quality, access, healthcare workforce, and public health;
- Intermediate level use of statistical software, such as SAS or STATA;
- Ability to communicate statistical interpretations to non-scientists;

### **PREFERRED QUALIFICATIONS:**

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

- Familiar with SQL programming a plus;
- Experience in survey sampling, social and behavioral or health services research design and analysis is a plus;
- Experience with ArcGIS is a plus.

### **PROFESSIONAL PRACTICE**

- Ability to communicate with multi-disciplinary project team members;
- Ability to deliver results in a timely manner;
- Demonstrated ability to communicate effectively, both orally and in writing;
- Ability to work both independently and as part of a team;
- Strong commitment to quality;
- Open to the challenge of continual learning;
- Highly self-motivated;
- Keen attention to details;
- Proficiency in Microsoft Office applications.

Salary is commensurate with experience.

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 August 30, 2013 to [OSA.applications@sao.state.ma.us](mailto:OSA.applications@sao.state.ma.us)

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