

American Association for Thoracic Surgery (AATS) Clinical Data Manager

About AATS

The American Association for Thoracic Surgery (AATS) is an international organization of over 1,400 of the world's foremost cardiothoracic surgeons representing 36 countries. Founded in 1917, its members have a proven record of distinction within the specialty and have made significant contributions to the care and treatment of patients with cardiothoracic disease throughout the world. The AATS and its Foundation (Foundation) strive to achieve the AATS mission of Promoting Scholarship, Innovation, and Leadership in Thoracic and Cardiovascular Surgery while holding to the AATS core values of Leadership, Scholarship, Mentoring, Excellence in Patient Care, Integrity and Professionalism.

Position Title

Clinical Data Manager

Department Description

We are in start-up company project mode for the development of a 21st century surgical quality assessment platform. We are currently assembling a new team of innovators (approx. 5-6) to build and launch this highly innovative platform to the thoracic community. The AATS Quality Assessment Platform (AQAP) and the creation and implementation of a clinical database registry is used for purposes of quality, research, and web-based surgeon collaboratives. The AQAP is a cloud-based, web-hosted solution sitting on an Amazon Web Services platform. This position will support the AQAP team through the planning and development of the AQAP database registry.

Position Summary

It is an exciting time in healthcare analytics and we have an exciting new position for energetic team player. The Clinical Data Manager will provide leadership and comprehensive data management expertise in the development and maintenance of cohort-based databases (patients having cardiac surgery, thoracic surgery, cardiac interventions) and longitudinal observational disease registries that are used for the purposes of quality assurance initiatives and patient outcomes research. The Clinical Data Manager performs quality assurance diagnostics on the completeness, reliability, validity and robustness of clinical databases. This position develops, monitors, and manages data quality metrics internally and is responsible for meeting data quality standards for external data submissions, file extracts, and public reporting. The Clinical Data Manager is trusted advisor and a clinical informatics expert and is contributing team member to a professional clinical informatics team.

Reports To

AATS Core Working Group

Duties and Responsibilities

Specific duties and responsibilities include, but are not limited to:

- Execution of data validation, data profiling, data auditing and data cleansing activities in a hands-on way to ensure high quality and trustworthiness of clinical data assets:
 - Development and management of data quality reports, metrics, rules and notifications to identify critical gaps for business process improvements and data dictionary development
 - Utilize database programming skills to generate data tabulations, data histogram profiles, and data validity checks to ensure-enforce completeness, validity, reliability of data sets
 - Create business rules and validation scripts to generate reports that are used by data stewardship teams as error reports and data profiling
 - Determine if/where/when participating centers are flagged (e.g. error rates or uncertainty patterns in data profiles) for onsite audits, remediation, or further education
 - Communication of synthesized data quality findings to business and technical team members, senior leaders, and external stakeholders

- The Clinical Data Manager is a trusted advisor and knowledge base for providing data dictionary and methodological expertise/support in health outcomes research, development of risk models, and statistical analysis of quality datasets in order to ensure the best possible value proposition throughout the data life cycle:
 - Assume responsibilities for data transfers and external data harvests, including documentation and correspondence with external vendors
 - Produce and manage data definition documents (DDDs) and e-CRF data dictionaries
 - Facilitate mapping of data elements across CRFs and database versioning and work with site participants to build research CRFs in support of various research programs
 - Research and recommendation of new innovative methods and systems to manage data for performance improvement

- The Clinical Data Manager is part of a professional team and is contributing and collaborative team member in following ways:
 - Contribution to internal governance teams to drive the data quality platform and roadmap
 - Collaboration with internal and external stakeholders such as study team members, project managers, data stewards and data analysts
 - Liaise with Biostatistics teams and liaise with database programming teams
 - Extraction of insights from data, which may involve analytical comprehension and transformation
 - Provide guidance, mentoring, training and feedback for participating sites in data collection and dataset production processes

Professional Experience and Qualifications/Key Attributes

- Bachelor's (required) or Master's (preferred) in Statistics, Public Health, Mathematics, Economics, Computer or Systems Engineering or related field that further developed your expertise in the business of health and healthcare

- Three (+) years of professional experience in clinical data management best practices, managing, cleaning and integrating large, complex databases (specifically SQL databases: SQL queries, and SAS: Proc SQL, Macros), and in health information systems and informatics standards
- Understanding of computer programming and scripting languages including Linux/Unix, Python, Perl, SAS and R
- High level of analytical ability and competencies in applied statistics to solve business needs
- Excellent communication skills
- Experience in data analysis and transformation in visualization and analytics tools.
- Understandings of relational databases theories and principles, data warehousing, master data management
- Experience in project management roles, particularly in clinical data management, operations or project leadership role
- Eager to solve complex problems with data, is skilled in managing data for translational use and has a passion to learn new skillsets

Previous experience with non-profit organizations and/or medical associations preferred.

Please send a cover letter with salary requirements and your resume to rmouser@aats.org.

Office Location

Beverly, MA and/or Remote