



Clinical Application Coordinator 3

Department of Health, Division of Laboratory Services

Nashville, TN

\$100,896-\$161,004

Who we are and what we do:

The mission of the Tennessee Department of Health is to protect, promote and improve the health and prosperity of people in Tennessee.

Our vision is to be a recognized and trusted leader, partnering and engaging to accelerate Tennessee to one of the nation's ten healthiest states.

The Division of Laboratory Services' mission is to provide quality analytical laboratory support through the generation of accurate, reliable and valid laboratory results.

TDH Laboratory Services

Key Responsibilities:

- Manage Laboratory Informatics Program (6 Clinical Application Coordinators) for Tennessee Department of Health (TDH), providing informatics support to the Nashville Central Laboratory and Knoxville Regional Laboratory in all their lab functions including clinical testing, newborn screening, and environmental sciences testing
- Oversee management of 4 different Laboratory Information Management Systems (LIMS), interfaced lab instrumentation, and HL7 electronic orders and results interfaces between clinical laboratory LIMS system (StarLIMS v11 PH) and public health records systems as well as newborn dried bloodspot screening LIMS (both Neometrics and SpecimenGate) and hospital electronic health record (EHR) systems and environmental sciences laboratory LIMS system (StarLIMS v11 ES)
- Administer data services using messaging and vocabulary standards (HL7 v2 messaging, LOINC, UCUM, SNOMED-CT) to various Tennessee Department of Health divisions, TN State Departments, and federal partners
- Govern development and maintenance of enterprise architecture to extract necessary data for HL7 ORU transactions from separate LIMS systems used for both clinical and newborn dried bloodspot screening sections of laboratory
- Coordinate the development and maintenance of enterprise architecture to properly identify, route, and modify HL7 ORU transactions as needed by receiving partner in Orion Rhapsody Electronic Data Interchange (EDI) Engine
- Oversee implementation and operational maintenance of HL7 ORU ELR (Electronic Laboratory Reporting to Public Health) transactions to multiple state and federal epidemiologic surveillance programs as well as HL7 ORU LRI (Laboratory Results Interface) transactions to public health clinics sending HL7 OML LOI (Laboratory Orders Interface) messages
- Facilitate research of vocabulary and terminology standards (including documentation for requests for new codes) such as LOINC (Logical Observation Identifiers Names and Codes) and SNOMED-CT (Systematized Nomenclature of Medicine – Clinical Terms) in order to map all TDH lab data to data standards used in all HL7 transactions we do (ORU results, ORU ELR, OML order messages)
- Oversee implementation and operational maintenance of an outward facing laboratory web portal to better facilitate lab order placement and results receipt by order submitters used as an alternative to manual requisition and reporting processes and/or direct HL7 LOI/LRI transactions
- Facilitate development and modification of LIMS requirements based upon testing protocol changes and changing workflow needs of laboratory, including requirements documentation for new test builds, user acceptance testing, and end-to-end testing to maintain or expand HL7 messaging interfaces (LOI, LRI, ELR) with public health records systems

Key Responsibilities (continued):

- Acquire funding by writing to multiple federal grants and accounting for progress reports and budgets to informatics sections of those grants
- Supports the daily interface between laboratorians, administration, clinicians, program staff and others (such as CDC and APHL) by utilizing direct written and verbal communication in responding to user inquiries.
- Translate public health laboratory practice information between clinicians, administrative staff, program staff, Information Technology (IT), and others.
- Assist laboratory staff in identifying modifications or enhancements to the Laboratory Information System to ensure efficient and effective workflow and data delivery.
- Design/develop new or modified informatics solutions to support laboratorians, patients, providers, and information management. The definition process includes vocabulary, profiles, dictionaries, displays, report format tables, and ad-hoc reports.
- Assist with problem identification and resolution of daily production problems in a timely manner.
- Lead efforts to correct deficiencies and errors that occur in electronic record use and to document non-conforming events for quality assurance improvement.
- Coordinate the installation of applications, modification, enhancements, and deployment of LIS/LIMS and electronic messaging.
- Serve as liaison between local public health department providers, regional program staff, and central office CACs.
- Participate in professional organizations to keep abreast of developments in informatics, public health, and clinical practice.

Minimum Qualifications:

- Master's Degree in public health, health sciences, health services, health informatics, or health care administration **and** five (5) years of experience in deployment or implementation of application systems or a related field with a strong foundation in system design, analysis, and evaluation **OR**
- Bachelor's Degree in public health, health services, health science, health informatics, or health care administration **and** eight (8) years of experience with deployment or implementation of applications systems or a related field with a foundation in systems design, analysis, and evaluation.

Required Experience:

- Prior experience on the successful implementation of Laboratory Information System, Lab Web Portal and or Electronic Health Record system is preferred.
- Prior experience as a clinical application coordinator (CAC) is preferred.
- Extensive knowledge of HL7 2.5.1 standards and trading partner agreements.
- Three years of professional, full-time experience in administrative supervision
- Must have advanced knowledge of information science and technology and health care practices and processes
- Must be skilled in the development of operational processes for selected solutions and in creating reports
- Must show demonstrated proficiency with information systems technology

To apply, please visit: <https://www.tn.gov/careers.html>

Pursuant to the State of TN's policy of non-discrimination, the State of Tennessee does not discriminate on the basis of race, sex, religion, color, national or ethnic origin, sexual orientation, age, disability, or military services in its policies, or in the admission of, access to, treatment, or employment in its programs, services, or activities.