PUBLIC HEALTH INFORMATICS SCIENTIST I/II

Posting ID: EM18207516

Company: Southern Nevada Health District

Position Type: Full-Time

College Major(s): Electrical/Computer Engineering (EE/CpE), Computer Science (CS)

Company Website: http://www.southernnevadahealthdistrict.org

Work Location: 280 S. Decatur, Nevada

Salary: $31.06 - $58.89 Hourly; $2,484.60 - $4,710.90 Biweekly; $64,599.60 - $122,483.40 Annually

College Level(s): Graduate Student, PhD. Student

OVERVIEW

To develop, test and integrate software systems for surveillance and disease reporting; provide highly responsible and complex staff assistance to the Senior Public Health Informatics Scientist, Division Directors and the Chief Health Officer.

Roles and Responsibilities

PUBLIC HEALTH INFORMATICS SCIENTIST I:

- Design, develop and deploy public health informatics tools, including front-end, back-end and middle-ware to enable surveillance and population-based studies of the health status of residents and visitors to Southern Nevada
- Develop and evaluate a decision support system for disease surveillance and disease reporting that integrates heterogeneous data sources provided by federal, regional and state health information organizations
- Translate systems requirements into applications prototypes; plan and design systems and applications architecture; write, debug, and maintain computer code using standardized vocabularies for public health information; determine output media/formats; design user interfaces
- Establish appropriate data security provisions and protocols to enable access to and maintenance of public health data and personal health information
- Write professional documentation of work performed for both internal and external consumption including technical presentations, peer reviewed and non-peer reviewed publications
- Conduct assessments of the public health information systems and produce timely, meaningful and actionable information
- Provide support for effective disease monitoring and surveillance, and decision-making.
- Perform related duties and responsibilities as required
PUBLIC HEALTH INFORMATICS SCIENTIST II:

- In addition to the Responsibilities and Duties required of the PHIS I:
- Lead, organize and review the work of lower level staff in collaboration with the Senior Public Health Informatics Scientist
- May serve in an acting capacity in the absence of the Senior Public Health Informatics Scientist when designated

Education and Qualifications

Knowledge of:

- Principles and practices of epidemiology and public health research and practice
- Principles and practice of public health informatics
- Strategies for achieving effective data acquisition, management, quality, storage, use, and application to address population health needs
- Public health reporting and information system standards
- Public health information vocabularies and data standards (e.g. HL7, ICD, LOINC and SNOMED codes) Information system design, development and management
- Computer programming languages such as Visual Basic, Java, JavaScript, C#, Python, SAS, and Ruby
- Relational database design and management using Microsoft SQL, Postgresql, and other database management systems
- Data communications security and privacy techniques; legal and ethical issues regarding confidentiality and use of individually identifiable public health and medical record data
- Pertinent federal, state and local laws, codes and regulations
- Disease reporting statutes and regulations under Nevada law; HIPAA; FERPA; 45 CFR 46 (Human Subjects Protection)

Ability to:

- Evaluate information against a set of standards of information integrity and comparability
- Interpret and analyze medical, health and other data obtained from a variety of sources
- Produce timely and accurate data for disease surveillance and assist data-driven decision making for unique public health needs
- Plan, design and develop information systems that meet the needs of public health practice and research
- Develop instruments and methodologies for an integrated public health surveillance system such as aberration detection algorithms, data mining programs, and for matching and duplication of individual records when integrating different databases
- Apply knowledge of database design and management for the needs of public health practice and research
- Design and conduct quantitative research studies; collect, interpret and publish findings
- Maintain a professional demeanor in all circumstances
- Establish and maintain cooperative working relationships with those contacted in the course of work
- Maintain confidentiality

TRAINING AND EXPERIENCE GUIDELINES:

- Equivalent to a master's degree from an accredited school with a focus in health informatics, computer science, software engineering, data science or a related field
How to Apply
Click [here](#) to apply!