

DATA VISUALIZATION ANALYST

Purpose Statement

Under the direction of the Director of Research, Evaluation and Accountability, leads all aspects of business intelligence in data warehouse architectural design, development and support in multiplatform environments; gathers functional requirements from stakeholders; develops applications to create innovative visualizations that produce insights that facilitate actionable decision making practices.

Essential Functions

- Leads all aspects of business intelligence in data warehouse architectural design, development and support in multiplatform environments; coordinates with stakeholders for the full business cycle of related projects.
- Gathers functional requirements from stakeholders and translates into technical specifications to develop data visualizations.
- Performs complex data analysis, design and development of new data mining in a data warehouse to include data design, database architecture, meta data and repository creation using data mining and data analysis tools.
- Analyzes and measures trends in student achievement to help improve decision making based on more accurate data collected across the school district; communicates findings to stakeholders.
- Creates technical user documentation; provides training and support for stakeholders as needed.
- Interacts with users and vendors to resolve issues; troubleshoots and resolves complex performance and architectural challenges.
- Reviews and validates data loaded in the data warehouse for accuracy; ensures the quality and accuracy of all deliverables.
- Develops a comprehensive library of dimensions, calculations, dashboards, and reports.
- Develops service-side logic, definition and maintenance of the central database, and ensures high performance and responsiveness to front end requests.
- Incorporates industry standards, such as SDLC and ITIL, on all projects and tasks.

Other Functions

- Performs related duties as assigned.

Job Requirements: Minimum Qualifications

Skills, Knowledge and Abilities

SKILLS are required to perform multiple, complex, technical tasks with a need to occasionally upgrade skills in order to meet changing job conditions. Specific skills required to satisfactorily perform the functions of the job include: operating standard office equipment including pertinent computer software; planning and management projects and deadlines; preparing and maintaining accurate and complex records; performing strong programming and relational database skills with emphasis on advanced Structured Query Language (SQL).

KNOWLEDGE is required to perform advanced math; review and interpret complex materials; and analyze situations to define issues and draw conclusions. Specific knowledge required to satisfactorily perform the functions of the job include: knowledge of software tools, languages, scripts, and shells that effectively support the data warehouse environment in different operating systems; maintaining working knowledge of Relational Database Management systems (DBMS) and data warehouse front-end tools.

ABILITY is required to gather, collate, and/or classify data; and use job-related equipment. Flexibility is required to independently work with others in a wide variety of circumstances; analyze data utilizing defined but different processes; and operate equipment using a variety of standardized methods. Ability is also required to work with a significant diversity of individuals and/or groups; work with data of widely varied types and/or purposes; and utilize a variety of job-related equipment. In working with others, independent problem solving is required to analyze issues and create action plans. Problem solving with data requires analysis based on organizational objectives; and problem solving with equipment is significant. Specific abilities required to satisfactorily perform the functions of the job include: adapting to changing work

priorities; maintaining confidentiality; working with detailed and complex information; ability to transform large amount of data into compelling visual stories to facilitate analysis and decision making.

Working Environment

The work environment characteristics are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform essential functions. The usual and customary methods of performing the job’s functions require the following physical demands: standing; walking; sitting; using hands to finger, handle or feel objects, tools or controls; reach with hands and arms; stoop; kneel; crouch; talk and hear. The employee must occasionally lift and/or move up to 10 pounds. Specific vision abilities required by this job include close vision and distance vision. The noise level in the work environment is usually moderate.

Education/Experience

Any combination equivalent to: bachelor’s degree or college-level coursework in computer science or related area; three (3) years of relevant experience in database programming and business intelligence tools; experience gathering requirements and designing visualization applications; proficiency with SQL.

Required Testing

None Specified

Certificates & Licenses

Valid California Driver’s License

Continuing Educ./Training

None Specified

Clearances

Pre-placement Physical Exam; TB Clearance; and Criminal Justice Fingerprint/Background Clearance.

Sweetwater Union High School District programs and activities shall be free from discrimination based on age, gender, gender identity or expression, or genetic information, sex, race, color, religion, ancestry, national origin, ethnic group identification, marital or parental status, physical or mental disability, sexual orientation; the perception of one or more of such characteristics; or association with a person group with one or more of these actual or perceived characteristics.” SUHSD Board Policy 0410

*Office-Technical Job Description
Adopted by BOT 11/13/17*

Salary Range 75