The purpose of the class is to establish data architecture and perform data modeling for business-critical projects. The class is responsible for developing enterprise-wide data standards and creating conceptual and logical models for applications and data warehouse initiatives to ensure consistent usage and standards. The class plans, designs, and develops enterprise-level application and custom integration solutions and prepares recommendations based on long-term Information Technology organizational strategy. The class works within broad policy and organizational guidelines; uses professional concepts to resolve complex issues; independently plans and implements related projects; and reports progress of major activities through periodic conferences and meetings.

- Determines the overall modeling standards, guidelines, best practices, and approved modeling techniques and approaches; creates programming and development standards and procedures, as well as programming architectures for code reuse.
- Partners with business analysts, systems analysts, business customers, and engineers to gather requirements and conduct reviews; analyzes user requirements for new or improved technology computer system capabilities.
- Translates business needs into long-term enterprise data architecture solutions by identifying data sources, developing an end-to-end vision for translating logical design into one or more databases or systems, and establishing data flow techniques through successive stages and applications.
- Supports, defines, designs and builds conceptual and logical data models from business requirements; provides expertise regarding the integration of applications across the business.
- Participates in due diligence of new software purchases by reviewing all proposed data models contained in packaged or commercially available applications; works with third party vendors to develop, document and/or integrate applications ensuring that they are in accordance with City application standards and guidelines.
- Manages complex projects to ensure completion and customer satisfaction within allocated resources and established timelines. Provides project status reports to senior management and key stakeholders on a regular, recurring basis. Serves on multiple project teams as needed.
- Provide assistance in the development and ongoing support of the Technology Strategic and Governance Plan.
- Participates in disaster recovery planning and implementation processes to incorporate technology solutions to help ensure continuity of operations and restoration of essential services.
- Recommends policies and procedures in consultation with senior management, IT/City staff, and key stakeholders/users to ensure most efficient and cost-effective technology solutions in support of enterprise business operations.
- Monitors performance measurement indicators to evaluate system performance, analyze cost versus benefits, and to assess return on investment.
- Develops a metadata management and repository strategy to manage all enterprise information architecture project artifacts. Ensures existing data/information assets are identified, stewarded and leveraged across the enterprise.
- Attends or conducts staff meetings to exchange information; attends in-service training and technical or professional classes, seminars, or conferences to improve technical and professional skills; researches and maintains knowledge in emerging technologies and their possible application to the business; serves on committees and boards engaged in computer information systems activities.
- Performs other related duties as assigned.

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<table>
<thead>
<tr>
<th>City of Chesapeake</th>
<th>Class Title: Data Architect</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Involvement</strong></td>
<td>Coordinates or determines time, place or sequence of operations or activities based on analysis of data or information; may implement and report on operations and activities.</td>
</tr>
<tr>
<td><strong>Interpersonal/People Involvement</strong></td>
<td>Counsels or instructs others through explanation, demonstration, and supervised practice and makes recommendations based on technical expertise.</td>
</tr>
<tr>
<td><strong>Reasoning Requirements</strong></td>
<td>Performs work involving the application of principles of logical thinking and administrative, professional, and information system practices to diagnose or define problems, collect data and solve abstract problems with widespread unit or organizational impact.</td>
</tr>
<tr>
<td><strong>Mathematical Requirements</strong></td>
<td>Uses mathematics involving the practical application of fractions, percentages, ratios and proportions, algebraic solutions of equations and inequalities, descriptive and inferential statistics, and mathematical classifications or schemes.</td>
</tr>
<tr>
<td><strong>Language Requirements</strong></td>
<td>Reads professional literature and technical manuals; speaks to groups of coworkers, staff in other organizational agencies, the general public, and people in other organizations; composes manuals and complex reports.</td>
</tr>
<tr>
<td><strong>Mental Requirements</strong></td>
<td>Performs professional level work requiring the application of scientific, engineering, legal, or managerial methods in the solution of technical, administrative, or legal problems; applies extensive understanding of operating policies and procedures to solve complex problems; requires continuous, close attention for accurate results and frequent exposure to unusual pressures.</td>
</tr>
<tr>
<td><strong>Decisions/Supervisory Control</strong></td>
<td>Guides others, making frequent decisions, affecting the individual, clients, coworkers, and others that depend on the service or product.</td>
</tr>
</tbody>
</table>

**EDUCATION, EXPERIENCE AND SPECIAL REQUIREMENTS**

<table>
<thead>
<tr>
<th>Vocational/Educational Requirement</th>
<th>Requires a bachelor's degree in computer science, computer information systems, information technology, or a closely related field.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience</td>
<td>In addition to satisfying the vocational/educational standards, this class requires a minimum of three years of full-time equivalent experience in a variety of information system environments including a minimum of one year of demonstrated experience in implementing and managing information technology governance and project management tools/disciplines, as well as direct work experience with data engineering (design, structures, analysis, and normalization). With an associate’s degree in lieu of a bachelor’s degree, five years of experience in a lead role in data modeling and support of complex databases is required.</td>
</tr>
<tr>
<td>Special Certifications and Licenses</td>
<td>Requires a valid driver’s license and a driving record that is in compliance with City Driving Standards.</td>
</tr>
</tbody>
</table>

**AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS**

The City of Chesapeake is an Equal Opportunity Employer. ADA requires the City to provide reasonable accommodations to qualified individuals with disabilities. Prospective and current employees are invited to discuss accommodations.

*This is a class specification and not an individual position description. A class specification defines the general character and scope of duties and responsibilities of all positions in a job classification, but is not intended to describe and does not necessarily list the essential job functions for a given position in a classification.*