**55DBP1 – Database Engineer I**

The Database Engineer I role involves assisting in the establishment and maintenance of database management systems, standards, guidelines, and quality assurance for various database deliverables. This includes supporting the operation of software environments, incident response, and problem-solving to meet the IT needs of the business.

**Key Responsibilities:**

* Assist in the establishment and maintenance of database management systems, standards, and guidelines.
* Contribute to the conceptual design and logical database development.
* Participate in capacity planning and external data interface specification.
* Develop and implement data loading plans and data maintenance plans.
* Ensure database security policies are followed and maintained.
* Assist in configuring and upgrading software.
* Support the operation of software environments, including incident response and problem-solving.
* Collaborate with team members to meet the IT needs of the business.
* Perform routine database maintenance and optimization tasks.
* Document database configurations, processes, and procedures.

**Minimum Qualifications:**

* No degree required, but a Bachelor's degree in a related field is preferred (or equivalent work experience in lieu of degree).
* Entry-level position with 0 - 2 years of experience.
* Certification varies by business system.
* Basic understanding of IT systems, software configuration, CI/CD, and business processes.
* Familiarity with software environments and upgrades.

**Preferred Qualifications:**

* Bachelor's degree in Computer Science, Information Technology, or a related field.
* Experience with database management systems such as MySQL, PostgreSQL, Oracle, or SQL Server.
* Knowledge of database design principles and best practices.
* Understanding of data security and privacy regulations.
* Strong analytical and problem-solving skills.
* Excellent communication and teamwork abilities.
* Ability to work in a fast-paced and dynamic environment.

**55DBP2 – Database Engineer II**

The Database Engineer II role involves establishing and maintaining database management systems, standards, guidelines, and quality assurance for various database deliverables. This includes continuously assessing and improving processes to enhance service quality, efficiency, and customer satisfaction, as well as supporting the operation of software environments, incident response, and problem-solving to meet the IT needs of the business.

**Key Responsibilities:**

* Establish and maintain database management systems, standards, and guidelines.
* Contribute to the conceptual design and logical database development.
* Participate in capacity planning and external data interface specification.
* Develop and implement data loading plans and data maintenance plans.
* Ensure database security policies are followed and maintained.
* Assist in configuring and upgrading software.
* Support the operation of software environments, including incident response and problem-solving.
* Collaborate with team members to meet the IT needs of the business.
* Perform routine database maintenance and optimization tasks.
* Document database configurations, processes, and procedures.
* Continuously assess and improve processes to enhance service quality, efficiency, and customer satisfaction.
* Identify areas for improvement, support improvement plans, and help to support implementation thereof.

**Minimum Qualifications:**

* Typically requires a Bachelor's degree in a related field (or equivalent work experience in lieu of degree).
* 2+ years of related experience.
* Certification varies by business system.
* Solid understanding of IT systems, software configuration, CI/CD, engineering, and business processes.
* Proficiency in software environments and upgrades.
* Possesses a basic understanding of IT systems, software configuration, and business processes.

**Preferred Qualifications:**

* Bachelor's degree in Computer Science, Information Technology, or a related field.
* Experience with advanced database management systems such as MySQL, PostgreSQL, Oracle, or SQL Server.
* Proficiency in database design principles, normalization, and indexing strategies.
* Experience with database performance tuning and optimization techniques.
* Knowledge of data warehousing, ETL processes, and data integration tools.
* Understanding of data security and privacy regulations, including encryption and access controls.
* Familiarity with cloud-based database solutions (e.g., AWS RDS, Azure SQL Database).
* Strong analytical and problem-solving skills.
* Excellent communication and teamwork abilities.
* Ability to work in a fast-paced and dynamic environment.

**55DBP3 – Database Engineer III**

The Database Engineer III role involves supporting and contributing to the enterprise business or engineering application strategy. This includes overseeing and contributing to the configuration, upgrade, and long-term operation of software, directing the operation and maintenance of software architecture and environments, and continuously assessing and improving processes to enhance service quality, efficiency, and customer satisfaction. The role also involves collaboration with external vendors and service providers to meet the IT needs of the business.

**Key Responsibilities:**

* Support and contribute to the enterprise business or engineering application strategy.
* Oversee and contribute to the configuration, upgrade, and long-term operation of software.
* Direct the operation and maintenance of software architecture and environments to support the IT needs of the business.
* Continuously assess and improve processes to enhance service quality, efficiency, and customer satisfaction.
* Identify areas for improvement, develop improvement plans, and lead implementation thereof.
* Support collaboration with external vendors and service providers to define contracted services and meet the agreed-upon requirements of the business.
* May be an individual contributor or supervise, mentor, and/or coach other ~~business systems analysts~~ database administrators / engineers.

**Minimum Qualifications:**

* Typically requires a Bachelor's degree in a related field (or a Master's degree with 3+ years of experience).
* 5+ years of related experience.
* Certification varies by business system.
* Deep understanding of IT systems, software configuration, CI/CD, engineering, and/or business processes.
* Proficiency in software environments and upgrades.

**Preferred Qualifications:**

* Advanced degree in Computer Science, Information Technology, or a related field.
* Extensive experience with advanced database management systems such as MySQL, PostgreSQL, Oracle, or SQL Server.
* Expertise in database design principles, normalization, indexing strategies, and data modeling.
* Proven experience with database performance tuning, optimization techniques, and troubleshooting.
* Knowledge of data warehousing, ETL processes, data integration tools, and big data technologies.
* Strong understanding of data security and privacy regulations, including encryption, access controls, and compliance standards.
* Experience with cloud-based database solutions (e.g., AWS RDS, Azure SQL Database) and hybrid cloud environments.
* Proficiency in scripting and automation using languages such as Python, Bash, or PowerShell.
* Strong analytical, problem-solving, and decision-making skills.
* Excellent communication, leadership, and teamwork abilities.
* Ability to work in a fast-paced and dynamic environment, managing multiple priorities and projects.

**55DBP4 – Sr Database Engineer**

As a Senior Database Engineer at Sierra Space, you will leverage your extensive experience and comprehensive understanding of IT systems, software configuration, CI/CD, engineering, and business processes to support and contribute to the enterprise business or engineering application strategy. You will oversee and manage the configuration, upgrade, and long-term operation of software, ensuring it aligns with the IT needs of the business. Your role will involve continuous process improvement to enhance service quality, efficiency, and customer satisfaction. You will also collaborate with external vendors and service providers and may supervise and mentor a team of ~~analysts~~ database administrators / engineers.

**Key Responsibilities:**

* Support and contribute to the development and implementation of the enterprise business or engineering application strategy.
* Oversee and manage the configuration, upgrade, and long-term operation of software, ensuring its alignment with business IT needs.
* Directs the operation and maintenance of software architecture and environments to support the IT needs of the business.
* Continuously assess and improve processes to enhance service quality, efficiency, and customer satisfaction.
* Identify areas for process improvement, develop improvement plans, and lead their implementation.
* Collaborate with external vendors and service providers to define contracted services and fulfill the agreed-upon requirements of the business.
* Provide support and guidance to a team of ~~analysts~~ database administrators / engineers, and may supervise, mentor, and coach other ~~business systems analysts~~ database administrators / engineers.
* Ensure proficiency in software environments and upgrades to maintain system integrity and efficiency.

**Minimum Qualifications:**

* Typically requires Bachelor's degree in a related field (or Masters + 6 yrs experience).
* 8+ years of related experience.
* Certification: varies by business system.
* Comprehensive understanding of IT systems, software configuration, CI/CD, engineering and/or business processes.
* Proficiency in software environments and upgrades.
* Ability to collaborate with external vendors and service providers to define contracted services and meet the agreed-upon requirements of the business.

**Preferred Qualifications:**

* Strong proficiency with advanced database management tools and technologies.
* Extensive knowledge of industry best practices in IT, database management, and software configuration.
* Excellent problem-solving skills and a keen eye for process improvement opportunities.
* Strong leadership skills with experience in mentoring and coaching junior ~~analysts~~ database administrators / engineers.
* Excellent written and verbal communication skills, capable of presenting complex concepts to diverse audiences.
* Demonstrated ability to manage multiple projects and priorities effectively.
* Commitment to continuous learning and professional development in the field of database engineering and IT systems.

**55DBP5 – Principal Database Engineer**

The Principal Database Engineer role involves strategizing and overseeing the configuration, upgrade, and long-term operation of software. This includes making strategic decisions and roadmaps affecting the implementation, upgrade, architecture, and integration of business-critical software systems. The role ensures that processes are aligned with industry best practices and tailored to the specific needs of Sierra Space, identifying areas for improvement across enterprise engineering and/or business systems. The Principal Database Engineer may also supervise, mentor, and coach a team of ~~business systems analysts~~ database administrators / engineers.

**Key Responsibilities:**

* Strategize and oversee the configuration, upgrade, and long-term operation of software.
* Direct the operation of software environments and support the IT needs of the business.
* Make strategic decisions and roadmaps affecting the implementation, upgrade, architecture, and integration of business-critical software systems.
* Ensure that processes are aligned with industry best practices and tailored to the specific needs of Sierra Space.
* Identify areas for improvement across enterprise engineering and/or business systems.
* Collaborate with external vendors and service providers, and internal customers to ensure that services provided meet the agreed-upon requirements of the business.
* May be an individual contributor or supervise, mentor, and/or coach a team of ~~business systems analysts~~ database administrators / engineers.

**Minimum Qualifications:**

* Typically requires a Bachelor's degree in a related field (or a Master's degree with 8+ years of experience).
* 12+ years of related experience.
* Certification varies by business system.
* Extensive understanding of IT systems, software configuration, CI/CD, engineering, and/or business processes.
* Expertise in software environments and upgrades.
* Proven ability to collaborate with external vendors and service providers, and internal customers to ensure that services provided meet the agreed-upon requirements of the business.

**Preferred Qualifications:**

* Bachelor's or Master's degree in Computer Science, Information Technology, or a related field.
* Extensive experience with advanced database management systems such as MySQL, PostgreSQL, Oracle, or SQL Server.
* Expertise in database design principles, normalization, indexing strategies, and data modeling.
* Proven experience with database performance tuning, optimization techniques, and troubleshooting.
* Knowledge of data warehousing, ETL processes, data integration tools, and big data technologies.
* Strong understanding of data security and privacy regulations, including encryption, access controls, and compliance standards.
* Experience with cloud-based database solutions (e.g., AWS RDS, Azure SQL Database) and hybrid cloud environments.
* Proficiency in scripting and automation using languages such as Python, Bash, or PowerShell.
* Strong analytical, problem-solving, and decision-making skills.
* Excellent communication, leadership, and teamwork abilities.
* Ability to work in a fast-paced and dynamic environment, managing multiple priorities and projects.