

SAN BERNARDINO COUNTY SUPERINTENDENT OF SCHOOLS

601 North E St., San Bernardino, CA 92415-0020 • Ted Alejandre, County Superintendent

SYSTEMS ENGINEER, APPLICATION SECURITY

SALARY:	\$114,875.52 - \$129,795.84 Annually (Range 90)
LENGTH OF SERVICE:	12 Months/228 Days per Year
APPLICATION DEADLINE:	Open Until Filled
LOCATION:	Technology Joint Powers Authority (JPA), San Bernardino

POSITION DESCRIPTION

The Systems Engineer, Application Security is responsible for securing data systems and networks relative to software development, encryption technologies, database administration, data warehousing and operations. This position is responsible for translating security policies and procedures and for developing and maintaining secured software development and application infrastructure relative to systems developed and maintained by the Technology JPA and in accordance with industry standards. The Systems Engineer, Application Security coordinates and prioritizes services required by the technical services department of SBCSS to provide infrastructure support and services to BEST NET and CECC members.

ESSENTIAL JOB FUNCTIONS

- Secures the departments application infrastructure and software systems;
- Performs application security audits, risk assessments and analysis;
- Leads the department's security testing process, including application and static code testing;
- Makes recommendations to enhance data systems and infrastructure security;
- Creates and recommends application security policies and procedures;
- Assesses and corrects application and related data system security weaknesses;
- Monitors systems and participates in security incidents;
- Implements preventative technologies which identifies intrusions and prevents data loss in applications;
- Identifies suspicious activity or corrupt or seized data;
- Ensures data integrity and confidentiality of data;
- Implements SQL data encryption processes while optimizing user performance;
- Performs high level root cause analysis for service interruption recovery and creates preventative measures;
- Evaluates and researches integration of new and emerging technologies;
- Participates and attends the BEST NET's Network Advisory Committee (NAC);
- Serves as a member of the Strategic Planning Infrastructure committee and serves as Co-Chair;
- Coordinates and priorities district technical service needs;
- Assists in the System Development Life-Cycle Management documentation duties;
- Develops agendas, presentations and meeting materials;
- Conducts and attends meetings;
- Supervises staff;
- Performs related duties as assigned.

JOB REQUIREMENTS

Experience in application infrastructure software security relative to MS-SQL database administration, .NET development, data warehousing, data security and enterprise-wide operations; working with technical and non-technical staff; managing, coordinating, leading and communicating essential project priorities, elements and desired outcomes;

Skill in application infrastructure, application testing, including static code testing, secure database and data warehousing; security architecture methodologies and industry standard practices; analyzing and troubleshooting software and hardware systems;

Knowledge of various application testing tools and protocols, network protocols and Microsoft SQL database management policies, practices and emerging technologies, hardware and software architecture and environment;

Ability to manage projects and work flow for timely completion; work cooperatively with a variety of individuals and groups; communicate effectively in both oral and written form; develop effective system solutions to meet client needs; travel to various locations;

Physical Abilities include sitting for extended periods, lifting, reaching, pushing/pulling, fine manual dexterity, talking/hearing, and near and far visual acuity, depth perception, color vision.

MINIMUM QUALIFICATIONS

- Bachelor's degree;
- Seven (7) years experience in data systems and application security administration and operating system security administration;
- Five (5) years experience in Microsoft SQL Server administration and security;
- Three (3) years experience in .NET application development and testing;
- Experience in a lead or supervisory position.

DESIRED QUALIFICATIONS

- Certified Application Security Specialist (CASS);
- Certified Information Systems Security Professional (CISSP);
- MCDBA Microsoft Certification;
- Three (3) years experience in warehousing tools and architecture;
- One (1) year experience in a California school district or County Office of Education.

NECESSARY MATERIALS FOR APPLICATION

- Completed Ed-Join Online Application (*incomplete applications will not be accepted*);
- Letter of Application;
- Current Resumé;
- Copy of Bachelor's Degree;
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SAN BERNARDINO COUNTY SUPERINTENDENT OF SCHOOLS

601 North E St., San Bernardino, CA 92415-0020 • Ted Alejandre, County Superintendent

SYSTEMS ENGINEER, APPLICATION SECURITY

SALARY:	\$114,875.52 - \$129,795.84 Annually (Range 90)
LENGTH OF SERVICE:	12 Months/228 Days per Year
APPLICATION DEADLINE:	Open Until Filled
LOCATION:	Technology Joint Powers Authority (JPA), San Bernardino

POSITION DESCRIPTION

The Systems Engineer, Application Security is responsible for securing data systems and networks relative to software development, encryption technologies, database administration, data warehousing and operations. This position is responsible for translating security policies and procedures and for developing and maintaining secured software development and application infrastructure relative to systems developed and maintained by the Technology JPA and in accordance with industry standards. The Systems Engineer, Application Security coordinates and prioritizes services required by the technical services department of SBCSS to provide infrastructure support and services to BEST NET and CECC members.

ESSENTIAL JOB FUNCTIONS

- Secures the departments application infrastructure and software systems;
- Performs application security audits, risk assessments and analysis;
- Leads the department's security testing process, including application and static code testing;
- Makes recommendations to enhance data systems and infrastructure security;
- Creates and recommends application security policies and procedures;
- Assesses and corrects application and related data system security weaknesses;
- Monitors systems and participates in security incidents;
- Implements preventative technologies which identifies intrusions and prevents data loss in applications;
- Identifies suspicious activity or corrupt or seized data;
- Ensures data integrity and confidentiality of data;
- Implements SQL data encryption processes while optimizing user performance;
- Performs high level root cause analysis for service interruption recovery and creates preventative measures;
- Evaluates and researches integration of new and emerging technologies;
- Participates and attends the BEST NET's Network Advisory Committee (NAC);
- Serves as a member of the Strategic Planning Infrastructure committee and serves as Co-Chair;
- Coordinates and priorities district technical service needs;
- Assists in the System Development Life-Cycle Management documentation duties;
- Develops agendas, presentations and meeting materials;
- Conducts and attends meetings;
- Supervises staff;
- Performs related duties as assigned.

JOB REQUIREMENTS

Experience in application infrastructure software security relative to MS-SQL database administration, .NET development, data warehousing, data security and enterprise-wide operations; working with technical and non-technical staff; managing, coordinating, leading and communicating essential project priorities, elements and desired outcomes;

Skill in application infrastructure, application testing, including static code testing, secure database and data warehousing; security architecture methodologies and industry standard practices; analyzing and troubleshooting software and hardware systems;

Knowledge of various application testing tools and protocols, network protocols and Microsoft SQL database management policies, practices and emerging technologies, hardware and software architecture and environment;

Ability to manage projects and work flow for timely completion; work cooperatively with a variety of individuals and groups; communicate effectively in both oral and written form; develop effective system solutions to meet client needs; travel to various locations;

Physical Abilities include sitting for extended periods, lifting, reaching, pushing/pulling, fine manual dexterity, talking/hearing, and near and far visual acuity, depth perception, color vision.

MINIMUM QUALIFICATIONS

- Bachelor's degree;
- Seven (7) years experience in data systems and application security administration and operating system security administration;
- Five (5) years experience in Microsoft SQL Server administration and security;
- Three (3) years experience in .NET application development and testing;
- Experience in a lead or supervisory position.

DESIRED QUALIFICATIONS

- Certified Application Security Specialist (CASS);
- Certified Information Systems Security Professional (CISSP);
- MCDBA Microsoft Certification;
- Three (3) years experience in warehousing tools and architecture;
- One (1) year experience in a California school district or County Office of Education.

NECESSARY MATERIALS FOR APPLICATION

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- Letter of Application;
- Current Resumé;
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SYSTEMS ENGINEER, APPLICATION SECURITY

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LENGTH OF SERVICE:	12 Months/228 Days per Year
APPLICATION DEADLINE:	Open Until Filled
LOCATION:	Technology Joint Powers Authority (JPA), San Bernardino

POSITION DESCRIPTION

The Systems Engineer, Application Security is responsible for securing data systems and networks relative to software development, encryption technologies, database administration, data warehousing and operations. This position is responsible for translating security policies and procedures and for developing and maintaining secured software development and application infrastructure relative to systems developed and maintained by the Technology JPA and in accordance with industry standards. The Systems Engineer, Application Security coordinates and prioritizes services required by the technical services department of SBCSS to provide infrastructure support and services to BEST NET and CECC members.

ESSENTIAL JOB FUNCTIONS

- Secures the departments application infrastructure and software systems;
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- Creates and recommends application security policies and procedures;
- Assesses and corrects application and related data system security weaknesses;
- Monitors systems and participates in security incidents;
- Implements preventative technologies which identifies intrusions and prevents data loss in applications;
- Identifies suspicious activity or corrupt or seized data;
- Ensures data integrity and confidentiality of data;
- Implements SQL data encryption processes while optimizing user performance;
- Performs high level root cause analysis for service interruption recovery and creates preventative measures;
- Evaluates and researches integration of new and emerging technologies;
- Participates and attends the BEST NET's Network Advisory Committee (NAC);
- Serves as a member of the Strategic Planning Infrastructure committee and serves as Co-Chair;
- Coordinates and priorities district technical service needs;
- Assists in the System Development Life-Cycle Management documentation duties;
- Develops agendas, presentations and meeting materials;
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- Performs related duties as assigned.

JOB REQUIREMENTS

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MINIMUM QUALIFICATIONS

- Bachelor's degree;
- Seven (7) years experience in data systems and application security administration and operating system security administration;
- Five (5) years experience in Microsoft SQL Server administration and security;
- Three (3) years experience in .NET application development and testing;
- Experience in a lead or supervisory position.

DESIRED QUALIFICATIONS

- Certified Application Security Specialist (CASS);
- Certified Information Systems Security Professional (CISSP);
- MCDBA Microsoft Certification;
- Three (3) years experience in warehousing tools and architecture;
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NECESSARY MATERIALS FOR APPLICATION

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APPLICATION DEADLINE:	Open Until Filled
LOCATION:	Technology Joint Powers Authority (JPA), San Bernardino

POSITION DESCRIPTION

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JOB REQUIREMENTS

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