

# Job Title: TECHNICAL MANAGER IV - SYSTEM ARCHITECT - IPR#44794

**Agency :** Department of Transportation

**Closing Date/Time:** 11/28/2022

**Salary:** \$5,120 - \$9,155 Monthly

**Job Type:** Salaried Full Time

**County:** Sangamon

**Number of Vacancies:** 1

**Plan/BU:** NR916 - Protech Teamsters

**This position is a union position; therefore, provisions of the relevant collective bargaining agreement/labor contract apply to the filling of this position.**

**All applicants who want to be considered for this position MUST apply electronically through the [illinois.jobs2web.com](http://illinois.jobs2web.com) website. State of Illinois employees should click the link near the top left to apply through the **SuccessFactors** employee career portal.**

**Applications submitted via email or any paper manner (mail, fax, hand delivery) will not be considered.**

## **Agency Mission Statement**

The Illinois Department of Transportation is seeking to hire a System Architect.

The IDOT team works diligently to provide safe, cost-effective transportation for Illinois in ways that enhance quality of life, promote economic prosperity and protect our environment. We are problem solvers and leaders, constantly searching for innovations and improvements in support of our commitment to providing the best multimodal transportation system for Illinois.

Our team fosters a culture of inclusivity. We value diversity and hold ourselves to the highest ethical standards as we work together for a common purpose. Team members frequently collaborate with colleagues and others outside the department to best meet customer needs.

The department offers extensive training and career advancement opportunities. Employees also receive a robust benefit package including:

- Monday-Friday work schedule
- Flexible work schedules are available in many program areas.
- Health, Life, Vision, and Dental Insurance
- Pension Plan
- (10) Weeks paid Maternity/Paternity Leave
- Deferred Compensation Program and other pre-tax benefit programs (Medical/Daycare)
- Employees earn (12) paid Sick Days annually.
- New Employees earn (10) paid Vacation Days their first year of service and can earn up to (25) paid Vacation Days annually.
- Employees earn (3) paid Personal Days annually.
- (13-14) paid holidays annually (based on start date)
- Tuition Reimbursement

We invite qualified applicants to apply to become part of our team. We are confident that you will take pride in serving Illinois and its residents and visitors.

## **Job Responsibilities**

This position assists in establishing software framework standards, designing application architectures, and creating environments to facilitate statewide technology application development for the department. The incumbent is responsible for designing the structure of new technology systems, overseeing the implementation of programs, and liaising with software development teams.

Number of new development projects: 10 - 15 annually

Technology user base supported: 5,400 +/-

Estimated code value: \$150 million

This position reports to the Distributed Systems Manager. There are no subordinates reporting to this position.

The incumbent works in an environment where s/he oversees the entire scope of application development and guides departmental implementation of these functions. S/He must fully grasp the development and planning of major technology systems to be effective in this position. S/He works closely with other members of the Distributed Systems Unit on development projects and with users to analyze, design, and implement technology applications and systems.

The greatest challenge of this position is to design, develop, and implement technology applications that maximize the department's investment and best utilize resources to ensure timely and effective completion of departmental objectives. To meet this challenge the incumbent must combine the complex and dynamic requirements of the department with state-of-the-art technology and computer systems. Other typical challenges relate to the incumbent's ability to effectively apply practical operational experience to the development of technology solutions in response to stakeholder and user needs.

Under the supervision of the Distributed Systems Manager the incumbent is responsible for evaluating application development technology to meet departmental needs, establishing software development standards, and testing implemented changes on existing technology systems and platforms. S/He assists in specifying, designing, and implementing new systems and applications. The incumbent serves as a mentor and team leader to developers and assists in establishing technology development standards and best practices for the use of developers in the Bureau of Information Processing to ensure these standards are consistent, complete, correct, and operationally defined to support the development of technology in the organization. Additionally, s/he performs cost-benefit analysis to determine whether requirements are best met by manual, software, or hardware function; ensures maximum use of commercially developed components; and monitors and creates technology. In addition, s/he serves as the primary developer for technology design and implementation and may be called on to develop sketches, models, and other prototypes to ensure that system design is evolving with ever-changing technology requirements. The incumbent ensures that a robust

### **(Job Responsibilities continued)**

technological architecture is developed for the department and that all products and technology are maintained in the most current state. S/He establishes and maintains coordination with project sponsors, stakeholders, and key users of business and engineering technology in the development cycle and determines evolving development needs. The incumbent provides technical advice to all levels of the Bureau of Information Processing staff and assumes the role of programmer and analyst as needed. The incumbent may be assigned to work independently on special projects.

Under the supervision of the Distributed Systems Manager, the incumbent has the freedom to act and resolve technology development issues. S/He has the latitude to resolve technical and procedural problems as directed by the Distributed Systems Manager, Chief Technology Officer, and Bureau Chief of Information Processing. Only when the action affects a unit's or users' budget, time constraints, or departmental standards and procedures must the matter be referred to the appropriate manager for resolution. The incumbent is governed by departmental policies and regulations, Department of Innovation and Technology (DoIT) rules, several union agreements, various pay plans, and applicable state and federal laws.

Internal contacts are with all departmental technology users, stakeholders, and project sponsors which primarily are bureau chiefs, section heads and directors as well as other departmental staff and consultants. External contacts are with multiple local and state agencies and various vendors and consultants especially pertaining to business and engineering technology development and request for proposal (RFP) projects. This position requires minimal in-state travel which may include overnight stays.

The effectiveness of this position is measured by the incumbent's ability to identify cost-effective and innovative technology solutions, leverage the department's investment with efficient software development practices, and provide consistency of technology development.

### **Principal Accountabilities**

1. Evaluates application development technology to meet departmental needs, establishes software development standards, and tests implemented changes on existing technology systems and platforms.
2. Assists in specifying, designing, and implementing new systems and applications.
3. Serves as a mentor and team leader for other developers, recommends training, and assists in establishing

technology development standards and best practices for the use of developers in the Bureau of Information Processing.

4. Performs cost-benefit analysis to determine whether agency requirements are best met by commercial or custom developed software or hardware functions and makes maximum use of development components.
5. Serves as the primary developer for technology design and implementation, assumes the role of programmer and analyst as needed, and provides advice to all levels of Bureau of Information Processing management.
6. Ensures a robust technological architecture is developed for the department and all products and technology are maintained in the most current state.
7. Establishes and maintains coordination with project sponsors, stakeholders, and key users of business and engineering technology in the development cycle and determines evolving development needs.
8. Performs special assignments as assigned by the Distributed Systems Manager, Chief Technology Officer, and Bureau Chief of Information Processing.
9. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.

## **Qualifications**

### **Position Requirements**

- Education/Experience:
  - Completion of a bachelor's degree majoring in computer science or information technology plus two years of experience with application development using .Net framework, Microsoft Azure, and Microsoft web technologies and software, OR
  - Eight years of experience with application development using .Net framework, Microsoft Azure, and Microsoft web technologies and software
- Minimal in-state travel which may include overnight stays
- Valid driver's license

### **Position Desirables**

- Experience and general understanding of internet and intranet technology
- Experience working on large scale development projects
- Possesses a general understanding of Project Management Institute (PMI) project management methodology and Agile methodology

**Work Hours:** 8:00 A.M. - 4:30 P.M. Monday-Friday

**Work Location:** 2300 S Dirksen Pkwy Springfield, IL 62764-0001

**Office:** Office of Finance & Administration/Bureau of Information Processing

**Agency Contact:** [DOT.CONTACTTHR@ILLINOIS.GOV](mailto:DOT.CONTACTTHR@ILLINOIS.GOV)

**Job Family:** Transportation; Technology

## **APPLICATION INSTRUCTIONS**

Use the "Apply" button at the top right or bottom right of this posting to begin the application process.

If you are not already signed in, you will be prompted to do so.

State employees should sign in to the career portal for State of Illinois employees – a link is available at the top left of the [Illinois.jobs2web.com](http://Illinois.jobs2web.com) homepage in the blue ribbon.

Non-State employees should log in on the using the "View Profile" link in the top right of the [Illinois.jobs2web.com](http://Illinois.jobs2web.com) homepage in the blue ribbon. If you have never before signed in, you will be prompted to create an account.

If you have questions about how to apply, please see the following resources:

State employees: Log in to the [career portal](#) for State employees and review the [Internal Candidate Application Job Aid](#)

Non-State employees: on [Illinois.jobs2web.com](http://Illinois.jobs2web.com) – click "Application Procedures" in the footer of every page of the website.

The main form of communication will be through email. Please check your "junk mail", "spam", or "other" folder for communication(s) regarding any submitted application(s). You may receive emails from the following addresses:

- [donotreply@SIL-P1.ns2cloud.com](mailto:donotreply@SIL-P1.ns2cloud.com)
- [systems@SIL-P1.ns2cloud.com](mailto:systems@SIL-P1.ns2cloud.com)