IS Systems Development Services Senior

Applications Developer / File Manager

Position Summary

Under general supervision of the Business Support and Information Technology (IT) Section Chief for the Waste and Materials Management Program (WA), independently complete analysis projects which support the overall development, implementation, testing and maintenance of WA applications. This position performs a variety of advanced professional IT work including gathering business requirements through identifying system problems and user needs, completing cost evaluations, and proposing, designing, and developing applications to support the following WA program areas: Recycling, Electronics Recycling (E-Cycling), Groundwater Monitoring, Mining, Solid Waste and Hazardous Waste.

This position analyzes WA’s business processes for the development and enhancement of automated systems and other IT to support these business processes; analyzes cross-bureau and agency-wide IT issues impacting WA and proposes solutions for WA consistent with agency and division IT standards; collaborates and assists the WA IT Project Coordinator to perform feasibility, cost-benefit, and systems requirements studies; and leads the development, enhancement, and maintenance of IT for the program areas noted above. WA, the Remediation and Redevelopment Program, the Air Management Program, and the Community Financial Assistance program consume data from the systems this position supports for programmatic monitoring, support, and compliance, planning, budgeting, and forecasting. This position trains supported systems users and in collaboration with the division, assists users in solving problems between assigned work computers and WA systems.

Location, Geographic Scope and Travel Requirements:

This position is based in Madison with responsibilities statewide. Occasional within state travel required for meetings, conferences, staff training, etc. Out of state travel rare.
<table>
<thead>
<tr>
<th>TIME</th>
<th>GOALS AND WORKER ACTIVITIES</th>
</tr>
</thead>
</table>
| 50%  | A. Maintenance and development of IT applications and Information Systems (IS) for the following program areas: Recycling, E-Cycling, Groundwater Monitoring, Mining, Solid Waste and Hazardous Waste.  
A1. Regularly collaborate with stakeholders to develop business and system requirements for program IT applications and IS.  
A2. Collaborate with IT project coordinator or Development Specialist to develop proposals in response to identified business and system requirements.  
A3. Research integrated development environments (IDEs), hosting services, shared libraries and agency shared services for program IT and IS systems in alignment with agency standards.  
A4. Prepare detailed IT and IS programming specifications, including conceptual design, approach and maintenance, IT and IS resource requirements in alignment with business requirements, system requirements and agency development and security standards.  
A5. Lead IT and IS systems and intuitive user interface development, testing, implementation, and modification in collaboration with Development Specialist or management, as needed.  
A6. Participate in WA IT planning, assisting in defining projects and recommending new technology.  
A7. Identify IT development required to facilitate interoperability of agency IS. |
B1. Manage automated license issuance systems, collaborating with regional staff and providing technical assistance to stakeholders as needed.  
B4. Manage and provide technical assistance for stakeholders regarding the US EPA e-manifest system, including processing data into WA maintained systems as needed. |
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B5.</td>
<td>Manage the electronic submittal of Hazardous Waste compliance, licensing, inspection, and other reporting data to US EPA to ensure WA meets Federal grant requirements.</td>
</tr>
<tr>
<td>B6.</td>
<td>Develop programs, procedures, and reports on Hazardous Waste inspections, accomplishments, and enforcement activities for WA management to monitor Hazardous Waste sub-program performance.</td>
</tr>
<tr>
<td>B7.</td>
<td>Develop complex routine and ad-hoc reports to respond to stakeholder requests.</td>
</tr>
<tr>
<td>B8.</td>
<td>Prepare and maintain detailed system specifications and other documentation for developers and end-users.</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>C. WA data system and information liaison with internal and external stakeholders.</td>
</tr>
<tr>
<td></td>
<td>C1. Advertise program data systems and information and provide training on their use.</td>
</tr>
<tr>
<td></td>
<td>C2. Provide consultation and technical support to stakeholders regarding program data systems and information.</td>
</tr>
<tr>
<td></td>
<td>C3. Regularly assess WA data systems and information and collaborate with stakeholders to define and document business needs and requirements as needed.</td>
</tr>
<tr>
<td></td>
<td>C4. Develop and maintain knowledge of Department and Division IT trends and potential impact on WA systems.</td>
</tr>
<tr>
<td></td>
<td>C5. Represent WA and coordinate with Department wide, and Division wide data system upgrades, deprecations, and other systems issues.</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>D. Ongoing professional development.</td>
</tr>
<tr>
<td></td>
<td>D1. Identify and acquire field current skills through collaborating with other IT staff, training, attending conferences, and independent study.</td>
</tr>
</tbody>
</table>
Knowledge, Skills, and Abilities

- Knowledge of customer service concepts and strategies.
- Knowledge of mobile application delivery technologies, including mapping applications.
- Knowledge of Scrum Agile methodology.
- Knowledge of Visual Basic.
- Knowledge of Oracle forms IDE.
- Knowledge of R-Studio IDE.
- Knowledge of LINQ query.
- Knowledge of Shiny Apps applications.
- Skill in problem solving.
- Skill in Microsoft .Net framework.
- Skill in Microsoft Visual Studio IDE.
- Skill in Microsoft applications including Access, Word, Excel, Outlook, PowerPoint.
- Skill in relational database development, creation, maintenance and management.
- Skill in Oracle.
- Skill in SQL.
- Skill in C#.
- Skill in Model – View – Controller approach to software development.
- Skill in Microsoft SQL Reporting Services.
- Skill in Bootstrap.
- Skill in creating database tables and table triggers.
- Skill in work planning.
- Skill in project management.
- Skill in Java Script.
- Skill in unit testing.
- Ability to contribute from a technical perspective on a project team through the entire IT software development life cycle.
- Ability to analyze how changes to IT architecture and infrastructure impact business systems.
- Ability to communicate effectively to both technical staff and non-technical staff, including managers.
- Ability to implement quality assurance and control practices with other IT professionals.
- Ability to develop, create, maintain and manage relational databases which may include spatial data.
- Ability to build and effectively use partnerships
- Ability to employ analytical abilities, pragmatism, and other tools to resolve complex problems in a variety of situations
- Ability to deliver accurate and technically proficient work using sound professional judgment in analyses and decisions
- Ability to prioritize workload and manage records
- Ability to work cooperatively with others toward accomplishment of a shared goal and use own strengths in order to effectively contribute to the project or goal
Physical Requirements and Environmental Factors:

*Physical requirements:* expressing or exchanging ideas in a group setting, sitting for prolonged periods, raising or lowering an object from one level to another ranging in weight from 5 to 30 pounds.

*Environmental factors:* working indoors in an office setting and independently traveling to offices around the state.

**Equipment Used:** Computers, tablets, smartphones, projectors, virtual meeting hardware, fax machine, calculator, copy machine, and telephone.

**Telework Evaluation:**

Position must make regular in-office contact and work closely with developers and business experts/managers. Therefore telework available only on a limited, infrequent basis.