Job Description

**Job Title**  Database Developer  
**Job ID**  298816  
**Location**  Bloomington, Indiana  
**Full/Part Time**  Full-Time  
**Regular/Temporary**  Regular

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Special Instructions Summary

Application deadline is March 4, 2022 with an anticipated start date of April 1, 2022.

Department

INDIANA GEOLOGICAL & WATER SUR (BL-GEOY-IUBLA)

Department Information

The Indiana Geological and Water Survey (IGWS), a research institute of Indiana University (IU), seeks applications for a database developer to maintain and augment our research data architecture. We are particularly interested in applicants with a strong background in Microsoft SQL, Windows-based server environments, and experience with technical database design for heterogeneous and complementary databases.

Job Summary

The IGWS seeks to recruit a database developer to join our Information Services team.

**Department-Specific Responsibilities**

- Independently manages and administers research databases of the institute; supports enterprise research data management at a high level.
- Assists in the operation of ArcGIS servers and the Esri SDE (Spatial Data Engine).
- Builds and maintains web applications that interact with IGWS data.
- Co-leads the development of novel standards-based data architecture for the Survey.
- Works within the earth and water sciences and provides institutional data management support by developing, deploying, and administering databases and database applications.
- Performs database backup, restore, and recovery.
- Aids in server administration, cybersecurity review and reporting, and maintains the integrity of institutional data for the department.

**General Responsibilities**

- Provides experienced design, development, and implementation of databases with an emphasis on performance, security, and stability; determines technical feasibility and design solutions related to hardware and software requirements; conducts related planning, programming, data modeling, data flow diagramming, structural design, and testing.
Delivers and reports on data through the development of stored procedures, triggers, functions, and views; creates database queries, indexes, and writes data load scripts; designs, tunes, and indexes data tables.

Troubleshoots issues and develops normalized database solutions; reviews monitoring tools and query execution plans to maintain or increase query efficiency; performs root cause analysis on query performance issues.

Creates and maintains documentation for all database development projects and/or activities.

Researches and stays current with database development trends and best practices; recommends database standards, policies, and procedures.

Qualifications

EDUCATION

Required

- Bachelor's degree, preferably in computer science, information systems, or a related field.

Preferred

- Master’s degree in informatics, computer science, or a related field.

WORK EXPERIENCE

Required

- 2 years of database administration, planning, design, development or related experience.

Combinations of related education and experience may be considered.

SKILLS

Required

- Proficient communication skills.
- Maintains a high degree of professionalism.
- Demonstrated time management and priority setting skills.
- Demonstrates a high commitment to quality.
- Possesses flexibility to work in a fast paced, dynamic environment.
- Seeks to acquire knowledge in area of specialty.
- Highly thorough and dependable.
- Demonstrates a high level of accuracy, even under pressure.

Preferred

- Experience with MS SQL and RDBMS administration and development.
- Knowledge and experience with any of the following: PHP, Vue.js, Laravel frameworks, ColdFusion and/or C#. Other languages and technology experience is a plus.
- Experience with application programming interface (APIs) integration and development.
- Experience with Geographic Information Systems (Esri in particular).
- Ability to interpret user requests and perform data extraction and migration.
- Positive attitude and problem solving mindset.
- Experience with natural sciences.

Working Conditions / Demands

This role requires the ability to effectively communicate and to operate a computer and other standard office productivity equipment. The position involves sedentary work as well as periods of time moving around an office environment and the Bloomington campus. The person in this role must be able to perform the essential functions with or without an accommodation.

Work Location
Bloomington, Indiana

This is an in-person position on campus at Indiana University.

Job Classification

Career Level: Career
FLSA: Exempt
Job Function: Information Technology
Job Family: Database Admin & Development
Salary information: $46,675.20 - $65,000.00

Click here to learn more about Indiana University's Job Framework.

Posting Disclaimer

Due to the COVID-19 pandemic, there may be differences in the working conditions as advertised in our standard job postings (e.g., the ability to travel from one campus to another, etc.). If you are invited for an interview, please discuss your questions or concerns regarding the working conditions at that time.

This posting is scheduled to close at 11:59 pm EST on the advertised Close Date. This posting may be closed at any time at the discretion of the University, but will remain open for a minimum of 5 business days. To guarantee full consideration, please submit your application within 5 business days of the Posted Date.

If you wish to include a cover letter, you may include it with your resume when uploading attachments.

New employees will be provided with information regarding Indiana University's COVID-19 vaccine policy, which includes the opportunity to request an exemption. To learn more, view our COVID-19 vaccine information page.

Equal Employment Opportunity

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment based on individual qualifications. Indiana University prohibits discrimination based on age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status. Indiana University does not discriminate on the basis of sex in its educational programs and activities, including employment and admission, as required by Title IX. Questions or complaints regarding Title IX may be referred to the U.S. Department of Education Office for Civil Rights or the university Title IX Coordinator. See Indiana University’s Notice of Non-Discrimination here which includes contact information.

Campus Safety and Security

The Annual Security and Fire Safety Report, containing policy statements, crime and fire statistics for all Indiana University campuses, is available online. You may also request a physical copy by emailing IU Public Safety at iups@iu.edu or by visiting IUPD.

Contact Us