

**From:** Lyons, James  
**Subject:** Job Opportunity: Database/GIS Specialist

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### Job Opportunity: Database/GIS Specialist

The USGS Patuxent Wildlife Research Center in Laurel, MD, is seeking a contract database specialist to design a data management system for marine bird survey data being collected in the Gulf of Mexico. The position entails developing and maintaining a Relational Database, writing data processing code in the R language for QA/QC and data summary, and supporting the project website. All work must be fully documented and version controlled. Experience with GIS systems is desirable.

**Qualifications:** A BS or MS in biology, informatics, data science, statistics, or a related field with 1+ yrs experience working on data systems or monitoring data. Candidate should be well versed in the R statistical language, SQL, and MS-SQL Server or PostGRES/PostGIS. Experience with Python, Git version control systems, and ArcGIS or another GIS software system preferred. Some statistical background is desirable.

**Tasks:** Create data processing code and associated documentation for aerial survey data (QA/QC, formatting, data summarization). Build and maintain an SQL server RDBMS for data storage and retrieval. Assist with GIS support of survey planning, execution, and summary.

- Database skills/knowledge of SQL to build SQL server or PostGRES RDBMS, develop views (database structure is mostly completed), prepare metadata
- Programming skills (R and Python) for data processing, QA/QC, and data summary (initial code set exists)
- GIS skills for (1) survey support (spatial products for sample selection, navigation files for pilots, etc.) and (2) presenting results (mapping and data summaries)
- Other: organize, oversee, and maintain the project's Confluence site, which includes survey SOPs, the Project Record, data upload, and meeting notes

This position is located in Laurel, MD. If interested, please send a cover letter detailing your relevant experience, curriculum vitae, and contact information for three references to Dr. Jim Lyons, USGS Patuxent Wildlife Research Center, 12100 Beech Forest Road, Laurel, MD 20708 (jelyons@usgs.gov) and Dr. Emily Silverman, USFWS Migratory Bird Management, 11510 American Holly Drive, Laurel, MD 20708 (emily\_silverman@fws.gov). Closing date: 14 August 2017