



Various Science & IT Positions

U.S. Geological Survey (USGS) National Wetland Research Center (NWRC)
Lafayette, LA

I.M. Systems Group, Inc. (IMSG) www.imsig.com is soliciting a range of scientific and technical candidates to potentially support a Government program at the U.S. Geological Survey (USGS) National Wetland Research Center (NWRC) in Lafayette, LA in addition to other USGS facilities in the Southeastern U.S.

Biological Technician

This position supports the regular operations of biological research by performing the following duties: installing study plots; collecting, measuring, and recording biological data; summarizing field, greenhouse, and laboratory data into tabular, graphic, or narrative form; entering data into analytical computer programs; assisting senior biologists or scientists in analyzing results; and maintaining and operating field and data collecting equipment, including boats up to 25 ft and airboats.

The position requires a high school diploma (or equivalent) and at least two years of undergraduate study in ecology, botany, wildlife, and/or fisheries biology. The individual shall have the ability to work with little or no supervision and within established guidelines and operational procedures to ensure uniform data collection between field personnel and succeeding years of data collection and sampling. Experience in data entry and knowledge of PC-based computer systems is required.

General Biologist

This individual will set-up, monitor, supervise, and maintain experiments in the field; conduct routine laboratory and greenhouse experiments; collect, measure, record, and analyze biological data; summarize field and experimental data in tabular, graphic, or narrative form; enter data into analytical computer programs; assist senior biologists or scientists in analyzing results; and maintain, operate, and calibrate field and data collecting equipment, including boats up to 25 ft and airboats. Supervision of junior biological aids, technicians, and biologists may be required.

The position requires a master's degree (or a bachelor's degree and/or equivalent work experience) and knowledge or experience of biology or zoology, ecology, botany, wildlife, and/or fisheries biology. The individual shall have the ability to work independently within established guidelines and operational procedures to ensure uniform data collection between field personnel and succeeding years of data collection and sampling. One-year experience in data entry and knowledge of PC-based computer systems is required. Supervisory experience is required.

Research Scientist

This position is responsible for conducting, directing, and monitoring contracted research and studies that describe, addressing, and evaluating biological, social, or physical issues related to natural resources. The scientist shall be responsible for designing and conducting new research as directed by the Center, for collecting new data, for synthesizing and analyzing existing information in the published literature and various databases, and for necessary combinations of the above activities. The individual shall have wide latitude for independent action and exercise of professional judgment in planning and accomplishing assigned tasks. Therefore, the position requires a high degree of initiative, resourcefulness, and originality to effectively carry out work assignments; considerable administrative ability; and a broad knowledge of local, state, and national issues as they relate to biological resources.

The position requires a master's degree (or higher), and a combination of education and experience equivalent to one-year post master's level study in biological, social, or physical issues related to natural resources.

Statistician

This position serves as the senior Individual statistician/biometrician and, as such, shall direct other Individual employees and participate in a diversity of projects with Center scientists in planning, conducting, analyzing, interpreting, and reporting approved research as identified in specific task orders. The duties and responsibilities of the position shall be to incorporate appropriate and cost-effective sampling designs in project study plans; design and conduct independent and original research to develop sampling protocols based on optimal sampling theory; participate in field research activities as required; advise, consult, coordinate, and arrange for assistance with analyses and interpretation of proposed and completed research as required; maintain currency in the fields of optimal sampling, experimental design, statistical analyses and biometrics relative to wildlife management and ecology; maintain a working knowledge of mini/microcomputer operations, statistics software packages (e.g., SAS), and programming; maintain a working knowledge of population and simulation modeling; develop, design, and conduct statistical protocols necessary to analyze spatial and temporal data in raster and vector format; collaborate with scientists employing information systems for display and analyses of data; develop, modify, evaluate, and implement demographic, harvest, movement, life history, and habitat models; design, develop, validate, and implement sound survey and census techniques; and publish results of research in wildlife, ecological, and statistical journals. The individual shall direct and/or supervise other statisticians as required to design and conduct statistically sound analyses of biological and ecological data, and shall ensure that analyses, inferences, and conclusions by project staff are valid and based on logic, scientific reasoning, and current statistical theory. The statistician shall require close liaison and working relations with the scientific community including professional personnel in other research laboratories, universities, and other agencies to minimize the potential for duplication of effort, to maximize achievement of common objectives, and to ensure that current techniques are made available to Center programs.

The position requires a master's degree (or a bachelor's degree and/or equivalent work experience), as well as education and practical experience in the biological sciences, statistical theory and methods; knowledge of natural resource habitat requirements; and authoring or co-authoring as evidenced by publications in the peer-reviewed, scientific literature. Required are experience and training in wildlife ecology; an understanding of the terminology, concepts, and principles of ecological modeling; and training in survey design, sampling theory and methods. Knowledge is also required of the principles of research design, univariate, multivariate, parametric, and nonparametric statistical analyses, and computer applications. The Individual shall have wide latitude for independent action and exercise of professional judgment in planning and accomplishing assigned tasks. Therefore, the position requires a high degree of initiative, resourcefulness, and originality to effectively carry out work assignments, considerable administrative ability, and a broad knowledge of local, state, and national problems as they relate to fish and wildlife resources.

Education Specialist

The individual is responsible for developing, implementing, and/or overseeing a comprehensive educational program at the Center. Duties include developing curricula and evaluation criteria for environmental education; working with the community to identify environmental educational needs and provide educational opportunities; coordinating center educational activities; designing educational and outreach materials; identifying potential partners in educational programs; and supervising on-site and off-site educational activities.

The position requires a bachelor's degree in education (or equivalent relevant discipline) with an emphasis on environmental education. Experience in supervision is also necessary, as there is a potential that the Education Specialist will supervise an Interpretive Specialist(s).

Media Specialist

This position is responsible for developing story ideas, writing news releases and feature stories, planning and implementing media and other special events, creating and maintaining media contact, databases, contacting media for story ideas, finding new media outlets, and working on media placement for specific audiences.

The position requires a minimum of a bachelor's degree in journalism or related field (i.e., communication).

Technical Writer/Editor

This individual shall oversee the editorial process of manuscripts and products in progress, including coordinating and checking reviews of other editors, working closely with authors on revisions, and mediating conflicts that may arise during the editorial process. The individual shall write, edit and prepare graphical representation of technical information for both technical and non-technical audiences; interpreting technical documentation standards; preparing abstracts, reports, and other products containing technical information; abstracting and editing data for entry into computer data bases; proofreading finished documents; attending meetings and workshops for the purpose of recording, synthesizing, and documenting technical decisions and information that pertain to Center products; consolidating and interpreting data obtained from formal and informal surveys of the public, natural resource professionals, reports, and publications.

The position requires a bachelor's degree in technical writing or related area, two years of technical writing and editing experience, and two years as a supervisory or coordinating editor. The individual shall be capable of working independently.

Microcomputer Systems Specialist

The individual shall be responsible for the timely and efficient completion of projects undertaken by individual programming and computer support staff which involve microcomputer management and information processing. Duties of this position shall include supervising individual microcomputer staff; planning and scheduling tasks; solving complex problems in the areas of system design, development, implementation, and support; designing and evaluating programs and hardware within system design and constraints of microcomputers. A high working level of knowledge shall be required in system design, network topologies, and microcomputer hardware and software. Tasks shall include selecting, integrating, and testing suitable hardware and software in a local area network/wide area network environment with multiple platforms, selecting and maintaining appropriate microcomputer operating systems, and providing users with direct and remote technical assistance in executing new and existing software and equipment.

The position requires a Master's degree in computer science or computer engineering (or equivalent work experience); at least four years of experience in microcomputer programming and maintenance; four years of experience in microcomputer networking; and at least two years of supervising and directing staff.

Photointerpreter

The individual shall be responsible for the interpretation of remotely sensed data, primarily aerial photography, using stereoscopic equipment. Major duties include applying, refining, and developing wetland and upland delineation classification schemes (national and user-defined) to be used during photointerpretation; identifying sources of aerial photography; preparing aerial photography for photointerpretation; indexing aerial photography; photointerpretation; performing quality assurance and quality control of own work and of other photointerpretation; making corrections to overlays; locating and delineating study area boundaries; providing technical input for requirements for photointerpretation tasks; providing technical assistance to other photointerpreters; communicating with cartographic service and supply companies; providing maps, map products, and photos to requestors; coordinating, organizing, and participating in fieldwork and reconnaissance to develop knowledge of study areas and verification of delineation; coordinating, organizing, and participating in the collection of groundtruth and GPS data for photo-rectification, and base map development; assisting in the maintenance of all equipment (drafting and field); demonstrating the use of photointerpretation equipment and techniques; and preparing and presenting products and findings for projects. Other duties include transfer of photointerpretation overlay delineation to base maps, demonstrations on use of zoom transfer scope for map transformation, performing quality assurance and quality control of draft map products, making corrections, and participating in draft map field review.

The position requires a bachelor's degree (or equivalent work experience) and at least two years of experience in photointerpretation. The individual shall have demonstrated experience in the use of the NWI wetland classification system, of the GPS and GPS software, and use of the stereoscope and Zoom Transfer Scope. Experience in the use of other classification systems, an analytical stereo plotter, and GIS software packages is desirable.

Spatial Analysis Technician

The individual shall function primarily as a technician by collecting, measuring, and recording scientific and geographic information; compiling field and other data, including remotely sensed data, into computerized data bases, GIS systems, and image processing systems; running software programs, especially GIS, image processing, and related software, to conduct analysis of the data; summarizing data in map, graphic, tabular, or narrative form; converting data for multiple hardware and software platforms; storing and retrieving the data; and writing aml's (macros) to accomplish these tasks.

The position requires a bachelor's degree (or equivalent work experience) and knowledge of field data collection techniques and geographic principles, methods, and current GIS technology. The individual shall have the ability to work independently and within established guidelines and standard operational procedures to ensure uniform data collection and analysis. The individual shall be required to occasionally supervise individual spatial analysis technicians. Experience in data collection, manipulation, and analysis is required. Ability to perform fieldwork for extended time periods may be required. Experience in the use of GIS software in the workstation (UNIX) environment is desirable.

Geographic Information System (GIS) Specialist

The primary duties of this position shall include the timely and efficient completion of projects which involve geographic information processing; proficient in the major areas of GIS software - data input/verification, database storage, creation, and manipulation, data analyses, and data presentation; major duties of this position shall include managing, creating, and utilizing GIS datasets and their associated databases primarily with the ARC/INFO family of software, or other GIS and image processing system; this may include various methods of creating GIS datasets, modifying existing datasets, and gathering other agency/organization datasets and transferring to ARC/INFO for use or modification. An increased emphasis is placed on GIS output production (maps, tables, etc) and aiding in data analyses of GIS datasets; performing data transfer through means such as file transfer protocol (ftp) or distributing datasets via CD-ROM; and performing established quality control procedures for GIS dataset and database construction. Other duties shall include providing technical assistance to GIS users; providing field assistance in collection of GPS data, and integration into GIS software; participate in meetings, workshops, training sessions, and demonstrations relating to GIS activities; providing assistance in training GIS users in concepts, database design, analyses, and output production; providing assistance in writing user manuals, reports, and papers to document GIS activities; and aiding in performing data analyses and producing GIS output products.

The position requires a bachelor's degree (or equivalent work experience) preferably in a science field and a minimum of one year direct experience in GIS activities. Knowledge and experience in GIS concepts, using mini/microcomputers, associated operating system software, and GIS software, as well as demonstrated experience in GIS are required.

Compensation will be negotiated based on candidate qualifications. IMSG offers an outstanding overall compensation package including health/dental insurance, short term/long term disability insurance, paid-time-off, and a 401(k) plan.

To Apply

Interested applicants should **indicate interested position(s) Reference Number(s) in the subject line of your email i.e. USGS1401 – Various Science & IT Positions** and submit your resume with at least three references to: jobs@img.com. Please also indicate your timeline of availability and preferred salary level for consideration. The position is dependent on contract award to IMSG.