Summer Employment with Options for Next Academic Year

Programmer Analyst:

Job Description: Analyzes, tests, designs, and prepares computer programs in order to produce or provide custom applications to facilitate collection and manipulation of data, and applications produced for internet based systems. Prepares documentation in order to provide information necessary for users to operate computer programs. Consults, trains and assists individuals, faculty, staff and non-University agencies with computer related projects such as setting up and configuring hardware for microcomputers and evaluating and testing software packages. Provides technical information necessary for other programmers to modify and/or add to the application developed.

Requirements: Knowledge normally acquired in the first two or three years of college, with coursework in an information technology specialization related to the area of employment; or one to three years of related and progressively more responsible or expansive work experience. Knowledge using Microsoft IIS web server, ASP.NET 4.0, Python 2.7, MS SQL Server, Django and Geo Django, Arc/GIS and Arc/GIS web services, and ERDAS image processing. All knowledge must be demonstrated and applicant must have abilities to produce software code using these and other scripts. Knowledge of systems administration and IT support are also important.

Job Summary: The applicant will provide applications development, software programming and script-writing, and computer operations support to an international research project on climate change and forests. The purpose of this research is to develop on-line, web-enabled tools and database systems for measuring carbon in tropical forests. Applicant must work well with scientists and support the technical aspects of key development work centered on software applications for the internet. Most of the work will involve integration of geospatial information systems, such as databases, GIS and remote sensing, with on-line information systems in a web browser and server-centered environment. Applicant will provide independent professional support of moderate complexity in one or more of the following information technology areas: software development, customer support, systems administration, systems software support, hardware support, communications network support, or a related technical area. The applicant will develop complex software and procedures with minimal to no assistance from higher level staff; designs technical specifications, file layouts and programs of moderate complexity; performs basic functional design on projects of limited scope; leads lower level support and student staff on assigned projects of limited scope and complexity, or on small components of larger projects. The applicant will work in a team collaborative environment, and participates as a fully functioning professional member of medium/complex project teams and performs research on designated systems software products. The applicant will assist in the support of computer systems, software, hardware, and the maintenance of operations systems.

Compensation and other Information: $14-$17 per hour, 20-40 per week, during normal work hours, M-F. Location of work is on the MSU campus. Independent study course credit can be given. Good experience for resume, possible intellectual property.

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