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Position#:.(PSA)........
Developed by:.........SG
Reviewed by:..........JP
Approved by:..........LK
Date:..............10/01

UNIVERSITY OF RHODE ISLAND
Position Description

TITLE: Research Associate/Data Analyst IV

DIVISION: Academic Affairs (CPRC)

REPORTS TO: Principal Investigator and/or Research Staff

GRADE: 13

SUPERVISES: Assist in supervision of others assigned to the project.

BASIC FUNCTION:

Work with university research staff and commercial research partners to design, develop, implement and maintain both the stage-based reasoning systems and software, utilizing distributed database and Client/Server strategies and architectures; and the security software system for SMS access. Function as a liaison between university research staff and commercial research partners relative to system and software design, development and integration issues for stage-based reasoning systems.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Coordinate, direct, maintain and enhance activities in the design, development and implementation of the Survey Management System (SMS), a sophisticated Client/Server Computer-Assisted Telephone Intervention (CATI) system linked with an interactive delivery system and a data analysis component. This includes the creation of new PowerBuilder applications, and Microsoft SQL server procedures and tables used in CPRC's Survey Management System.

Select and evaluate computer hardware, software, Client/Server tools and methodologies relative to implementation of stage-based reasoning systems, distributed software applications, and databases in order to determine optimum system performance.

Work in conjunction with University research staff and commercial research partners to resolve system and software requirements, then utilizing current software development methodologies, design, develop, and implement the requested user requirements.

Prepare and provide presentations detailing such systems and their implementation to internal staff and external research, and/or commercial partners.

Supervise the activities of programmers and staff in the development of PowerBuilder code and Microsoft SQL Server-stored procedures.

In the absence of a Database Administrator/Manager (Research Associate/Data Analyst I), engage in a variety of additional activities in support of daily operations in the following areas: Microsoft SQL Server (e.g., monitor database errors and expand database space); data cleaning; various projects (such as the Boston Veterans Administration Project); login accounts; Report Builder.

OTHER DUTIES AND RESPONSIBILITIES:

Work in conjunction with both internal staff, as well as external research, and commercial research partners to provide seamless software and systems implementations, as well as commercial quality software products.

LICENSES, TOOLS AND EQUIPMENT:

Working knowledge of CASE tool supported development and modeling for software and database design and development; experience on computer platforms including, but not restricted to, IBM-compatible PC, multiple and/or single processor-based platforms, as well as medium and mainframe-scaled platforms.

ENVIRONMENTAL CONDITIONS:

This position is not substantially exposed to adverse environmental conditions.

QUALIFICATIONS:

Master's degree in computer science, computer systems engineering, management information systems, or a related field required, as is a minimum of five years of post-educational experience in the design, development, and implementation of Graphical User Interface (GUI) systems in a distributed software and systems environment. Two years' experience with client/server tools PowerBuilder 6.5 or above, Microsoft SQL Server and Transact-SQL 6.5, and client/server and file server system design is required. Experience in administering database access rights in a client/server environment is required. The ability to be the principal systems architect in the design, development, and implementation of GUI applications and relational databases, and to oversee the activities of software developers and other staff in the areas of system programming and testing required. Ability to monitor the performance of Microsoft SQL Server and enhance database performance required. Knowledge of and experience in system implementation through both horizontal and vertical component integration necessary, as well as of strategies necessary for client/server implementations. Experience in the design, development and modeling of distributed databases through the use of Entity Relationship Diagramming (ERD) and process-based modeling preferred. Knowledge of

multiple procedural, object-based, and object-oriented languages preferred. Knowledge of the following is also preferred: Windows, the Windows 32 API, Windows NT Server 4.0, as well as Visual Basic+. Experience in the design, development and implementation of rule-based expert systems, and the associated issues of knowledge maintenance and search strategies preferred, as is knowledge of Visual C++.

ALL REQUIREMENTS ARE SUBJECT TO POSSIBLE MODIFICATION TO REASONABLY ACCOMMODATE INDIVIDUALS WITH DISABILITIES.