Definition of Class
This is a professional position, in which the incumbent serves as a domain expert on mission-critical services, develops and maintains software applications and/or integrates internal processes with external services. The incumbent exercises independent discretion and judgment while designing algorithms and data structures, enhancing or developing new software and conducting unit level testing. Incumbent coordinates specific application areas and provides technical leadership to the campus within his/her area of expertise.

Examples of Work Performed
Serves as a domain expert in one or more mission critical areas, utilizing a complete understanding of the end-to-end process in these areas.

Follows business requirements to design, implement and maintain software using appropriate data structures and well-designed code that exhibits mature programming and software design skills.

Performs unit-level testing of new software and oversees user acceptance testing of new software developed in house or delivered via enhancements from the ERP Vendor.

Improves and optimizes software that is in the production system by monitoring software in the production system for issues, running performance analyses to determine bottlenecks, and restructuring code to make performance improvements.

Troubleshoots software errors by monitoring the production system for software errors, using debugging tools to locate the code causing the errors, implementing appropriate fixes and testing the software for correctness.

Designs, develops, and tests interfaces to integrate software systems. Selects most appropriate API for developing software interfaces, ensures the security of data that is parked or in transit and implements the interface to integrate systems.

Stays informed on changes in technology, extending skillsets when necessary to perform responsibilities.

Serves as a team lead for software development projects by developing detailed project plans including timelines, recommending the appropriate technology options and software development platforms, interfacing with the functional owner to ensure that the new software meets the identified business need and evaluates the overall effectiveness of the software solutions.

Provides technical leadership to the software development team. Schedules code reviews of programs written by junior level developers, learns new technical topics and teaches other team members, and constantly stays abreast of new/emerging software development tools and methodologies.

Develops and implements strategies to support workflow and information access within the business. Relates software to business processes to achieve appropriate/optimal solutions, designs reports and data flows that are high performing with content, usability and security, and evaluates different software approaches such as on-premise, cloud, vended, or home-grown.
Follows through with the ERP vendor to report and resolve software bugs. Identifies and suggests ideas for improvement to the vendor via appropriate channels.

Requires a deep understanding of the SAP ERP modules within an assigned area(s) of expertise.

Develops project plans that includes detailed tasks and estimated timeline required to complete each task and the overall project.

Recommends technology options and development platforms. Critically evaluates up-grades and enhancements from vendors to ensure existing functionality remains intact and delivery of proposed improvements.

Performs similar or related duties as assigned or required.

**Essential Functions**

These essential functions include, but are not limited to, the following. Additional essential functions may be identified and included by the hiring Department.

1. Designs, develops and implements software solutions using deep domain expertise.
2. Develops interfaces to integrate software systems.
3. Serves as team lead for software projects and provides technical leadership.

**Minimum Qualifications**

These minimum qualifications have been agreed upon by Subject Matter Experts (SMEs) in this job class and are based upon a job analysis and the essential functions. However, if a candidate believes he/she is qualified for the job although he/she does not have the minimum qualifications set forth below, he/she may request special consideration through substitution of related education and experience, demonstrating the ability to perform the essential functions of the position. Any request to substitute related education or experience for minimum qualifications must be addressed to The University of Mississippi’s Department of Human Resources in writing, identifying the related education and experience which demonstrates the candidate's ability to perform all essential functions of the position.

**Physical Requirements:** These physical requirements are not exhaustive, and additional job related physical requirements may be added to these by individual agencies on an as needed basis. Corrective devices may be used to meet physical requirements.

- **Physical Exertion:** The incumbent may be required to lift up to approximately 25 pounds.
- **Vision:** Requirements of this job include close vision and color vision.
- **Speaking/Hearing:** Ability to give and receive information through speaking and listening.
- **Motor Coordination:** While performing the duties of this job, the incumbent is frequently required to use hands to finger, handle or feel objects. The incumbent is occasionally required to stand; walk; sit; talk or hear; stoop, kneel, crouch or crawl; and reach with hands and arms.

**Experience/Educational Requirements:**

**Education:**
Bachelor's Degree from an accredited four-year college or university in Computer Science or a related field.

**Experience:**
Four (4) years of experience related to the above described duties.

AND
**Substitution Statement:**
Related experience may be substituted for education, on a basis set forth and approved by the Department of Human Resources.

**Interview Requirements**
Any candidate who is called for an interview must notify the Department of Human Resources in writing of any reasonable accommodation needed prior to the date of the interview.

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