JOB DESCRIPTION

Design Engineer

Definition of Class
This is a non-supervisory position in which the incumbent is responsible for the design and implementation of electronic, acoustic, and/or signal processing circuits. Incumbent regularly exercises independent judgment and discretion by consulting with researchers to determine project needs and identify design options; designing integrated circuits and printed circuit board interfaces; and generating appropriate design documentation for each project. Incumbent reports to the Technical Services Manager.

Examples of Work Performed
Consults with researchers to determine project needs and identify design options. Communicates options to researchers.

Develops time budgets for each project request.

Designs integrated circuits by determining design specifications, platform, software needs, and interface necessary for each project.

Designs appropriate printed circuit board layout interfaces.

Creates, simulates, and debugs designs.

Generates all appropriate output files and engineering materials including user manuals and design documentation.

Stays abreast of technology advancements by attending various conferences, workshops, and/or seminars.

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. Consults with researchers to determine project needs and identify design options.

2. Designs integrated circuits and printed circuit board interfaces.

3. Generates appropriate output files and engineering materials.

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 stand. The incumbent is periodically required to talk and hear. The incumbent is occasionally required to sit; walk; use hands to finger, handle or feel objects, tools or controls; climb or balance; reach with hands and arms; and stoop, kneel, crouch or bend.

**Experience/Educational Requirements:**

**Education:**
Bachelor’s Degree from an accredited four-year college or university in Electrical Engineering.

AND

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

**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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