

JOB INFORMATION

Job Code	HU12
Job Description Title	Lead Principal Research Scientist/Engineer
Pay Grade	H38
Range Minimum	\$170,940
33rd %	\$208,550
Range Midpoint	\$227,350
67th %	\$246,160
Range Maximum	\$283,760
Exemption Status	Exempt
Approved Date:	7/18/2024 5:28:58 PM

JOB FAMILY AND FUNCTION

Job Family:	Research
Job Function:	Research Operations

JOB SUMMARY

The Lead Principal Research Scientist Engineer provides leadership over a specific or small range of closely related research areas relevant to the Applied Research Center (ARC) lab. Conducts research and establishes external funding for the lab.

RESPONSIBILITIES

- Establishes vision and maintain focus of the lab in alignment with the Applied Research Center Director. - Supervises lab employees which includes professional development, annual performance reviews, and regular meetings to maintain progress toward the lab vision. - Leads research and development projects requiring the applications of professional engineering or scientific practices and principles. Secures funding for the lab based on current and future research trends within the specific lab focus. - Interfaces with US Government, industry, faculty, staff, and students with a focus on relevant applied research. Develops proposals, budgets, schedules, and progress reports and presents results to internal or external stakeholder. - Advises faculty, principal research scientists and engineers, postdoctoral fellows, students, and staff with design, modification, prototype, processes, analysis procedures, and other engineering solutions. - Designs and fabricates equipment, materials, systems utilizing engineering practices and principles. Performs failure analysis and other issues. - Operates, maintains, and repairs specialized equipment. May manage local computer systems for laboratory functionality. - Ensures supplies are available and operational for use in projects. - Prepares technical reports for long and short-range planning.

The responsibilities listed above show the typical duties for jobs in this classification. Actual tasks may differ depending on the department's needs. Other similar duties may be assigned with discretion of the supervisor. Not every duty will apply to every position, and the amount of time spent on each task can change based on department needs.

SUPERVISORY RESPONSIBILITIES

Supervisory Responsibility	Full supervisory responsibility for other employees is a major responsibility and includes training, evaluating, and making or recommending pay, promotion or other employment decisions.
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MINIMUM QUALIFICATIONS

To be eligible, an individual must meet all minimum requirements which are representative of the knowledge, skills, and abilities typically expected to be successful in the role. For education and experience, minimum requirements are listed on the top row below. If substitutions are available, they will be listed on subsequent rows and may only be utilized when the candidate does not meet the minimum requirements.

MINIMUM EDUCATION & EXPERIENCE

Education Level	Focus of Education		Years of Experience	Focus of Experience	
Master's Degree	Engineering or closely related field.		14 years of	Experience conducting engineering and research projects. Experience managing a team of scientists and research associates.	Or
PhD	Engineering or closely related field.		12 years of	Experience conducting engineering and research projects. Experience managing a team of scientists and research associates.	

MINIMUM KNOWLEDGE, SKILLS, & ABILITIES

Strong attention to detail and the ability to manage multiple tasks simultaneously.	
Strong analytical, deductive reasoning, critical thinking, and active learning skills.	
Strong written and oral scientific communication and documentation skills.	
Knowledge of excellent skills in team building, creating alliances, and leading teams.	
Knowledge of effective oral communication skills.	

MINIMUM LICENSES & CERTIFICATIONS

Licenses/Certifications	Licenses/Certification Details	Time Frame	Required/Desired	
None Required.				

PHYSICAL DEMANDS & WORKING CONDITIONS

Physical Demands Category: Labor & Trades

PHYSICAL DEMANDS

Physical Demand	Never	Rarely	Occasionally	Frequently	Constantly	Weight
Standing			X			
Walking				X		
Sitting				X		
Lifting				X		
Climbing		X				
Stooping/ Kneeling/ Crouching		X				
Reaching					X	
Talking					X	
Hearing					X	
Repetitive Motions					X	
Eye/Hand/Foot Coordination					X	

WORKING ENVIRONMENT

Working Condition	Never	Rarely	Occasionally	Frequently	Constantly
Extreme temperatures		X			
Hazards					X
Wet and/or humid		X			
Noise			X		
Chemical		X			
Dusts		X			
Poor ventilation		X			

Vision Requirements:
Ability to see information in print and/or electronically and distinguish colors.

Travel Requirements:
In-State; Domestic