

JOB INFORMATION

Job Code	HU08
Job Description Title	Chief Engineer, Applied Research
Pay Grade	REUC
Range Minimum	\$0
33rd %	\$0
Range Midpoint	\$0
67th %	\$0
Range Maximum	\$0
Exemption Status	Exempt
Organizational use restricted to the following divisions	170 Senior VP Research Econ Development
Approved Date:	8/4/2025 12:48:47 PM

JOB FAMILY AND FUNCTION

Job Family:	Research
Job Function:	Disciplinary Research

JOB SUMMARY

Leads the disciplined planning, execution, and integration of complex applied research initiatives across engineering and scientific domains.

RESPONSIBILITIES

- Leads strategic planning and proposal development for applied research initiatives, ensuring each project is grounded in sound technical methodology and a clear execution framework.
- Develops and maintains a forward-looking technology and innovation roadmap that aligns cutting-edge research proposals with sponsor priorities and needs.
- Provides expert guidance to research teams on technical architectures and solution designs throughout proposal development and project execution.
- Oversees rigorous testing and validation processes, ensuring research outcomes are delivered with discipline, consistency, and technical excellence.
- Conducts comprehensive technical reviews across a diverse portfolio of applied research projects to uphold quality and performance standards.
- Implements robust resource management strategies for labs, equipment, facilities, and technical capabilities to maximize impact across integrated research efforts.
- Analyzes research outcomes and global innovations to incorporate lessons learned and drive continuous improvement in future initiatives.
- Advises faculty, postdoctoral researchers, students, and staff on design optimization, prototyping, analysis procedures, and engineering solutions.
- Designs and fabricates advanced systems and equipment, applying industry-leading engineering and scientific principles.
- Ensures consistent availability and operational readiness of research materials, supplies, and technologies across all projects.

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	
Bachelor's Degree	in Engineering, Science, or Mathematics	and	20 years of	Experience in applying engineering and scientific principles and methods in integrating a large scale portfolio of technology and science initiatives.	

MINIMUM KNOWLEDGE, SKILLS, & ABILITIES

Deep understanding of applied research methodologies, systems design, and validation techniques across multiple disciplines.	
Familiarity with emerging technologies, innovation cycles, and strategic planning frameworks.	
Knowledge of proposal structures and competitive research environments.	
Understanding of lab infrastructure, equipment lifecycle, and technical capability planning.	
Ability to lead multi-disciplinary teams, align research with sponsor needs, and manage integrated portfolios.	
Skilled in conducting rigorous technical evaluations, peer reviews, and validation protocols.	
Exceptional written and verbal communication for translating research into sponsor-facing deliverables and strategic reports.	
Aptitude for evaluating research outcomes and integrating lessons learned into future initiatives.	

MINIMUM LICENSES & CERTIFICATIONS

Licenses/Certifications	Licenses/Certification Details	Time Frame	Required/Desired	
Professional Engineer (PE) License			Desired	

PHYSICAL DEMANDS & WORKING CONDITIONS

Physical Demands Category:	Other
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PHYSICAL DEMANDS

Physical Demand	Never	Rarely	Occasionally	Frequently	Constantly	Weight
Standing			X			
Walking			X			
Sitting				X		
Lifting		X				25 lbs
Climbing			X			
Stooping/ Kneeling/ Crouching			X			
Reaching				X		
Talking				X		
Hearing					X	

PHYSICAL DEMANDS

Physical Demand	Never	Rarely	Occasionally	Frequently	Constantly	Weight
Repetitive Motions				X		
Eye/Hand/Foot Coordination				X		

WORKING ENVIRONMENT

Working Condition	Never	Rarely	Occasionally	Frequently	Constantly
Extreme cold			X		
Extreme heat			X		
Humidity			X		
Wet			X		
Noise			X		
Hazards			X		
Temperature Change			X		
Atmospheric Conditions			X		
Vibration			X		

Vision Requirements:

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