AUBURN
Human Resources

Principal Research Scientist/Engineer I

Job Description

JOB INFORMATION

Job Code	HC49A
Job Description Title	Principal Research Scientist/Engineer I
Pay Grade	RE09
Range Minimum	$58,600
33rd %	$72,270
Range Midpoint	$79,110
67th %	$85,950
Range Maximum	$99,620
Exemption Status	Exempt
Approved Date:	1/1/1900 12:00:00 AM
Legacy Date Last Edited	6/21/2021

JOB FAMILY AND FUNCTION

Job Family:	Research
Job Function:	Disciplinary Research

JOB SUMMARY

Conducts research in various fields of engineering or science to discover facts or perform research directed toward investigations, evaluation, and application of engineering or scientific theories and principles.

RESPONSIBILITIES

- Leads research and development projects requiring the applications of professional engineering or scientific practices and principles.
- Provides technical contributions and develops concepts that lead to new leading edge technologies/techniques/methods.
- Provides in-depth technical advice to other areas.
- Operates, maintains, and repairs specialized equipment.
- Advises faculty, postdocs, students, and staff with design, modification, prototype, processes, analysis procedures, and other engineering solutions.
- Designs and fabricates equipment, materials, systems utilizing engineering and scientific practices and principles.
- Ensures supplies are available and operational for use in projects.
- May manage local computer systems for laboratory functionality.
- Develops proposals, budgets, schedules and progress reports and presents results.
- Evaluates findings to develop new concepts, equipment, or processes.

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	May supervise employees but supervision is not the main focus of the job.

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 to 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	
PhD	in engineering, science, or related field	and	0 years of	Experience in engineering and research practices and principles.	Or
Master's Degree	in engineering, science, or related field	and	2 years of	Experience in engineering and research practices and principles.	Or
Bachelor's Degree	in engineering, science, or related field	and	4 years of	Experience in engineering and research practices and principles.	

MINIMUM KNOWLEDGE, SKILLS, & ABILITIES

Familiarity with engineering/scientific staff, methods, practices and programs.	

MINIMUM LICENSES & CERTIFICATIONS

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

REQUIRED PRE-EMPLOYMENT/ONGOING SCREENINGS

Motor Vehicle Record (MVR)

PHYSICAL DEMANDS & WORKING CONDITIONS

Physical Demands Category:	Other

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 cold			X		
Extreme heat			X		
Humidity			X		
Wet			X		
Noise			X		
Hazards			X		

WORKING ENVIRONMENT

Working Condition	Never	Rarely	Occasionally	Frequently	Constantly
Temperature Change			X		
Atmospheric Conditions			X		
Vibration			X		

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