



JOB INFORMATION

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| Job Code | JA01E |
| Job Description Title | Research Engineer V |
| Pay Grade | RE12 |
| Range Minimum | \$84,680 |
| 33rd % | \$107,260 |
| Range Midpoint | \$118,550 |
| 67th % | \$129,840 |
| Range Maximum | \$152,420 |
| Exemption Status | Exempt |
| Approved Date: | 1/1/1900 12:00:00 AM |
| Legacy Date Last Edited | 1/5/2012 |

JOB FAMILY AND FUNCTION

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|---------------|-----------------------|
| Job Family: | Research |
| Job Function: | Disciplinary Research |

JOB SUMMARY

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

RESPONSIBILITIES

- Performs a variety of research and development projects requiring the applications of professional engineering practices and principles.
- 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 practices and principles.
- Performs failure analysis and other issues.
- 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.
- 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

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|----------------------------|---|
| Supervisory Responsibility | May supervise employees but supervision is not the main focus of the job. |
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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 | Degree in Engineering that is relevant to the area of research | and | 8 years of | Experience in engineering and research practices and principles | |

Substitutions Allowed for Education: Yes

Substitution allowed for Education: When a candidate has the required experience, but lacks the required education, they may normally apply additional relevant experience toward the education requirement, at a rate of two (2) years relevant experience per year of required education.

Substitutions Allowed for Experience: Yes

Substitution allowed for Experience: When a candidate has the required education, but lacks the required experience, they may normally apply additional appropriate education toward the experience requirement, at a rate of one (1) year relevant education per year of required experience.

MINIMUM KNOWLEDGE, SKILLS, & ABILITIES

Applies diversified knowledge of engineering principles and practices to broad variety of assignments and related fields.

Requires use of advanced techniques and modification and extension of theories, precepts and practices in individual's field.

MINIMUM LICENSES & CERTIFICATIONS

| Licenses/Certifications | Licenses/Certification Details | Time Frame | Required/Desired |
|-------------------------|--|------------|------------------|
| | Some positions may require licensure as a professional engineer. | Upon Hire | Required |

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 | | |
| Temperature Change | | | X | | |
| Atmospheric Conditions | | | X | | |
| Vibration | | | X | | |

Vision Requirements:

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