

## JOB INFORMATION

|                                                          |                                    |
|----------------------------------------------------------|------------------------------------|
| Job Code                                                 | JA03D                              |
| Job Description Title                                    | NCAT Engineer IV                   |
| Pay Grade                                                | RE11                               |
| Range Minimum                                            | \$74,730                           |
| 33rd %                                                   | \$94,660                           |
| Range Midpoint                                           | \$104,620                          |
| 67th %                                                   | \$114,580                          |
| Range Maximum                                            | \$134,510                          |
| Exemption Status                                         | Exempt                             |
| Organizational use restricted to the following divisions | 128 Samuel Ginn Col of Engineering |
| Approved Date:                                           | 1/1/1900 12:00:00 AM               |
| Legacy Date Last Edited                                  | 1/5/2012                           |

## JOB FAMILY AND FUNCTION

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

## JOB SUMMARY

Applies engineering concepts, principles, and practices in research, development, testing, design and analysis of asphalt materials, processes, and equipment.

## RESPONSIBILITIES

- Performs research and development assignments related to asphalt technologies following guidelines and requiring the application of professional civil engineering practices and principles.
- Advises faculty, students, research sponsors, and staff with design, modification, prototype, processes, analysis procedures, and other engineering solutions.
- Performs lab testing for asphalt related research.
- Performs field performance tests to include diagnostics, transverse profiles, and fatigue crack analysis and mapping to determine causes of premature deterioration of asphalt.
- Prepares proposals, budgets, schedules, and progress reports and presents results of asphalt technology research.

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                                                                                                                             |  |
|-------------------|--------------------------------------------|-----|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Bachelor's Degree | Civil Engineering degree or related fields | and | 6 years of          | Experience in engineering and research practices and principles. Experience must include at least 2 years at the preceding level or equivalent. |  |

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

Fully competent in all conventional aspects of subject matter or functional area of assignments.

## MINIMUM LICENSES & CERTIFICATIONS

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

## REQUIRED PRE-EMPLOYMENT/ONGOING SCREENINGS

## 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            |            |            |

WORKING ENVIRONMENT

| Working Condition      | Never | Rarely | Occasionally | Frequently | Constantly |
|------------------------|-------|--------|--------------|------------|------------|
| 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.