FISK UNIVERSITY
Job Description Form

Position Title: Research Associate
Department: Life and Physical Sciences
Reports To: Director, Materials Science and Applications Group (MSAG)
FLSA Designation: Exempt
Bargaining Unit Position: N/A
Date Written/Revised: May 14, 2014

POSITION SUMMARY
The successful candidate will be in charge of preparation of synthesis and crystal growth experiments, crystal characterization, detector design and modeling as well as model validation experiments

ESSENTIAL FUNCTIONS
100% of the effort will be as a research associate and assisting the director of the Materials Science and Applications Group in the following duties:

- preparation of purification, synthesis and crystal growth experiments;
- design and performance of experiments aimed at determining basic physical properties; and
- design and performance of experiments aimed at validating theoretical predictions.
SECONDARY FUNCTIONS
Training and mentoring undergrads and grads in their research projects. Mentoring students participating in the Fisk/Vanderbilt Masters-to-PhD Bridge program.

ORGANIZATIONAL RESPONSIBILITY
No direct reports.

SPECIFIC JOB KNOWLEDGE, SKILLS AND ABILITIES

- PhD degree in physics or related disciplines
- Programming skills
- Knowledge of the operating principles of solid-state radiation detectors

QUALIFICATIONS

Education: PhD degree in physics, materials science, or engineering (Materials, EE or mechanical) is preferable.

Experience: 6-8 years (including graduate studies)

Licenses or Certificates: None required.

Additional Requirements: A background check will be required of the successful applicant. An official transcript (if applicable) and names, addresses and phone numbers of three (3) references will be required of the successful applicant.

PHYSICAL DEMANDS
While performing the duties of this job, the employee is frequently required to talk or hear. The employee is occasionally required to stand, walk, and sit. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision, depth perception, and ability to adjust focus.
WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Normal office conditions. The noise level in the work environment is usually moderate.

This job description is not an exclusive or exhaustive list of all job functions that an employee in this position may be asked to perform from time to time.