Position Title:  **Engineer III**  
Organizational Unit: Center for Imaging Science, College of Science  
FLSA Status: Exempt  

**BASIC FUNCTION:**

In support of CIS missions and projects, an Engineer III provides engineering support. The Engineer III translates technical guidance received from the project lead into engineering systems, including analysis, design, fabrication, testing, maintenance and adjustment. Provide technical direction and mentoring to more junior engineers, including students.

**MINIMUM QUALIFICATIONS**

*Substitution of relevant education or experience for stated qualifications may be considered.*

*Knowledge, Skills, and Abilities:*

- Fluent knowledge of engineering development techniques.
- Fluent technical knowledge of the major CIS operational subsystems in specific area of engineering expertise.
- Fluent ability to operate and design appropriate engineering hardware equipment.
- Fluent knowledge of engineering drawing, design, analysis, and development software tools.
- Working knowledge of engineering design and development programmatic aspects (cost, integration and testing, and schedule, resource estimation and project planning).
- Fluent verbal and written communication skills.
- Fluent mentoring and/or teaching ability.
- Demonstrated ability to establish and maintain effective working relationships with users, vendors, and outside contracts.
- Demonstrated ability to work in a team and to establish and maintain effective professional working relationships with peers across disciplines.
- Demonstrated technical leadership in engineering development activities.
- Manage or lead small team of technicians
- Expert knowledge in a specific engineering discipline.

*Education*

- One of the following (suitable experience and accomplishments can be substituted, as appropriate):
  - Undergraduate university Degree in an Engineering Discipline or a related technical field such as Computer Science, Physics, Math, or technical management
  - Completion of an engineering development license program.

*Experience*

- Minimum of 3-5 years experience in engineering systems development and design projects.

*Duties and Responsibilities*  
*See annual performance goals and objectives for complete list*

An **Engineer III** will design, develop, deploy and make modifications and enhancements to engineering systems. To support this effort, the Engineer will:

- Design, fabricate, and test engineering components.
- Determine the effort and time that will be required to resolve engineering subtasks.
- Participate in the design of engineering subsystems, including new development, and modification and enhancement of existing systems. This includes usage of good design practices, documentation, and presentation of design reviews.
- Complete assigned tasks in an accurate, robust, well document and well tested manner according to the defined schedule.
- Keep the project or mission lead appraised of any problems or schedule slips as soon as they are apparent.
- Follow all defined guidelines for engineering development/maintenance and delivery.
- Interact with customers to ascertain specifications and performance standards of desired systems and create a proposal to meet the customers engineering leads.
- Develop specifications, perform engineering tests and order parts, tools, and material for engineering projects.
- Safely and efficiently operation engineering equipment and materials for engineering development and operation needs.
- Maintain knowledge in engineering expertise area.
- Investigate, analyze and share knowledge of new and/or pertinent engineering methodologies and tools.
- Attend staff meetings as required and perform other related duties.
- Document work through design specifications, drawings, and engineering reports, and as appropriate, through published journal and proceeding papers.
- Guide and mentor more junior engineers, including students, to promote skill growth.

Definitions:
A basic level of expertise can be accomplished through the successful completion of a course in a specific area or a curriculum in a general field. This level would be assigned to someone who understands the basic topics, principles or practices within an area but has not practiced these principles in a non-class environment.

A working level of expertise can be accomplished through the successful completion of a curriculum in an area. This level would be assigned to someone who understands complex topics, principles or practices within an area but has not practiced these principles in a non-class environment.

A fluent level of expertise would be assigned to someone who understands the complex topics, principles or practices of an area and has demonstrated their competency through the completion of a small number (e.g. 3-4) of medium-sized to large-sized projects in a formal software development environment.

An expert level would be assigned to someone who has a thorough understanding of topics, principles or practices in an area and has demonstrated their competency through the completion of a number (e.g. 8-10) of medium-sized to large-sized projects in a formal software development environment.

A demonstrated skill indicates that a person has successfully completed this skill but there is some risk that the same result will not occur for the next opportunity.

A proven skill indicates that a person has successfully completed this skill often or with sufficient quality that it is expected that the same successful result will occur for the next opportunity.