Position Title: **Senior Scientific Research Assistant**  
Organizational Unit: Center for Imaging Science, College of Science  
FLSA Status: Exempt

**BASIC FUNCTION:**

In support of CIS missions, a Senior Scientific Research Assistant is responsible for providing scientific research expertise for CIS activities associated with new program initiatives, new and on-going development activities and applied and fundamental scientific research. The Senior Scientific Research Assistant, in conjunction with more senior scientists, contributes to scientific research, preparation of final reports and journal articles disseminating the results of that research, and participates in development of external funding for research projects through sponsor liaison, development, and proposal preparation activities. A Senior Scientific Research assistant supports more senior scientists in planning for and development of scientific directions. S/he provides mentorship to more junior scientists, including students.

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

**Knowledge, Skills, and Abilities:**

- Fluent technical knowledge of specific scientific area.
- Fluent ability to support the careful conduct of scientific research, following defined research methodologies.
- Fluent ability to effectively utilize and maintain a scientific laboratory environment according to protocol.
- Working ability to conduct scientific research.
- Basic knowledge of programmatic aspects of research (cost, resources, and schedule).
- Excellent verbal and written communication skills.
- Demonstrated ability to work in a team and to establish and maintain effective professional working relationships, including with peers across disciplines.

**Education**

- Undergraduate university degree in an Scientific Discipline or a related technical field such as Chemistry, Physics, Mathematics, Computer Science or Engineering

**Experience**

- 1-3 years experience in scientific research, including within an educational experience.

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

A **Senior Scientific Research Assistant** supports more senior scientists in proposing for and carrying out a high level program of scientific research. The Assistant Research Scientist will:

- Provide scientific expertise for new and ongoing activities within CIS.
- Support Project Leaders and more senior scientists, in the development of cost and schedule project plans for scientific research projects.
- Support more senior scientists, in carrying out a high level program of scientific research.
- Contribute to documenting the results of scientific research through reports, presentations at meetings, and through publication in proceedings and refereed journal articles.
- Support proposal generation and other new business efforts.
- Help to document early results and new initiative concepts in internal reports, white papers, and proposals.
- Guide and mentor more junior scientists including students to promote skill growth.
- Participate as a member in appropriate professional society or organization, as appropriate.
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 research 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 research 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.