SENIOR RESEARCH SCIENTIST

<u>Function of Job</u>:

Under the administrative review by Project Director, plan, conduct and supervise original research and the implementation of major research project (at least a $5M contract) in specialized scientific area of expertise, such as space science or medical science, and author and publish results obtained.

<u>Characteristic Duties and Responsibilities</u>:

1. Responsible in a leading scientific/technical managerial role for original concept, development, implementation, and pro-active maintenance of
   - major instrumentation and data analysis systems
   - major scientific simulation, data bank, and visualization programs
2. Provide significant expertise in specialized scientific area to manage and provide design leadership for major components of a major research project, including:
   - Conceptualization, design, calibration, and operation of scientific experiments or theoretical investigation
   - Definition and direction of a broad-based and perhaps complex data gathering process
   - Development and implementation of computer programs as required
   - Analysis and interpretation of results, and development of conclusions or hypotheses
   - Compilation of major portions of large scientific/technical proposals.
   - Presentation of results in publishable form
3. Supervise other scientific staff and professional staff, including engineers, programmers, and technicians, as well as external commercial contractors in the detailed design, construction and testing of scientific and support equipment.
4. Supervise and advise graduate students and staff in the analysis of data from scientific experiments.
5. Collaborate with scientists at other universities or institutes in the design and interpretation of experiments.
6. Keep current and provide major contributions in area of expertise through publications in respected scientific journals and invited presentations at scientific meetings.
7. Perform other related duties under general direction.

<u>Minimum Acceptable Qualifications</u>:

1. Doctorate or equivalent professional degree.
2. Thorough knowledge of computer programming and data analysis techniques and/or broad-based experience in the design, implementation, and calibration of major research instrumentation.
3. Successful service in the capacity of a leading role for a major research project in specialized scientific area of expertise for at least two years.
4. Ten years of research experience in related discipline.
5. Three years of supervisory experience.

6/6/08
System Approval

6/6/08
Effective Date

This document is a generic classification specification of the University System of New Hampshire. Its purpose is to describe the representative responsibilities and general level of complexity, and it is not a substitute for the specific job description of the individual position.