



**Family: Field, Outreach and Research Services**

**Level: PR7**

**Position Profile Title: Analyst-Applied Mathematician**

**Salary Grade: 6**

**Salary Range:**

**Minimum: \$ 56,448.00**

**Midpoint: \$ 77,580.00**

**Maximum: \$ 98,712.00**

**PROFILE SUMMARY:**

Positions in this job profile are responsible for development of applied mathematical solutions for research projects. They develop applications to make data available to internal and external sources.

**DISTINGUISHING CHARACTERISTICS:**

The distinguishing characteristics of the Analyst-Applied Mathematician profile is the expertise and application of applied mathematics to formulate and guide analysis of data in research projects. Positions integrate with technology and mathematics to further develop, interpret, and apply research.

**PRIMARY POSITION RESPONSIBILITIES:**

1. Formulates new mathematical algorithms for analyzing data from research projects.
2. Develops applications software in various programming languages for processing digital data
3. Develops web-based methods for making datasets usable by scientific researchers through the Internet.
4. Tests various applied mathematical applications as computer simulations using real and devised datasets to verify research assumptions.
5. Draws conclusions from data analysis and contributes to articles for publication in peer-reviewed and technical journals.

**PROBLEM-SOLVING AND DECISION-MAKING:**

Problems are highly varied, complex and often non-recurring; require novel and creative approaches to resolution. New concepts and approaches may have to be developed.

Decisions may affect a work unit or area within a department; the job may contribute to business and operational decisions that affect the department.

Decisions impact:

- Department
- Direct team
- Other External Agencies and Institutions

**ACCOUNTABILITY:**

Results are defined by department/college leadership and university mission, vision and strategies. Incumbent sets own goals and determines how to accomplish results with few or no guidelines to follow, although precedents may exist; supervisor/manager provides broad guidance and overall direction.

**RELATIONSHIPS WITH OTHERS:**

Collaborates and interacts within the Dept/Unit and Externally to:

- Develop and maintain relationships with key contacts to enhance workflow and work quality.
- Exchange routine, factual information and/or answer routine questions.
- Exchange detailed information or resolve varied problems.



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Collaborates and interacts within the Dept/Unit to:

- Handle sensitive issues and facilitate collaboration at the highest level.
- Identify needs/concerns of others, determine potential solutions, resolve or redirect appropriately.

**TYPICAL REQUIREMENTS:**

Master's degree in Mathematics or Computer Science.

Specialized security clearance may be required.

**DISCLAIMER:**

The above statements are intended to indicate the general nature and level of work performed by positions within this job profile. They are not designed to contain or be interpreted as an exhaustive list of all duties, responsibilities, skills, and qualifications required of all employees within positions covered by this job profile.