

POSITION DESCRIPTION (Please Read Instructions on the back)					Cybersecurity Category 00	1. Agency Position No S0231		
2. Reason for Submission OTHER		3. Service	4. Employing Office Location		5. Duty Station		6. OPM Certification No	
Explanation		7. Fair Labor Standards Act Non exempt		8. Financial Statements Required 6-Position does not require financial disclosure.		9. Subject to IA Action YES		
		10. Position Status Excepted	11. Position is NON-SUPERVISORY	12. Sensitivity	13. Competitive Level Code		14. Agency Use	
		15. Drug Test Required				16. ADP Status		
17. Classified/Graded by	Official Title of Position			Pay Plan	Occupational Code	Grade	Initials	Date
a. Office of Personnel Management								
b. Department, Agency or Establishment								
c. Second Level Review	Student Trainee (Hydrology)			GS	1399	11	L.P.	01/01/2002
d. First Level Review								
e. Recommended by Supervisor or Initiating Office								
18. Organizational Title of Position (if different from official title)				19. Name of Employee (if vacant, specify)				
20. Department, Agency or Establishment DEPARTMENT OF THE INTERIOR				c. Third Subdivision				
a. First Subdivision U.S. GEOLOGICAL SURVEY				d. Fourth Subdivision				
b. Second Subdivision				e. Fifth Subdivision				
21. Employee Review- This is an accurate description of the major duties and responsibilities of my position.				Signature of Employee (optional)				

Supervisory Certification. I certify that this is an accurate statement of the major duties and responsibilities of this position and its organizational relationships, and that the position is necessary to carry out Government functions for which I am responsible. This certification is made with the knowledge that this information is to be used for statutory purposes relating to appointment and payment of public funds, and that false or misleading statements may constitute violations of such statutes or their implementing regulations.

a. Name and Title of Supervisor Mark Sogge, Acting Deputy Director, USGS				b. Typed Name and Title of Higher-Level Supervisor or Manager (optional)				
Signature /s/ Mark Sogge		Date 07/30/2015		Signature		Date		
23. Classification/Job Grading Certification <i>I certify that this position has been classified/graded as required by Title 5, U.S. Code, in conformance with standards published by the U.S. Office of Personnel Management or, if no published standards apply directly, consistently with the most applicable published standards.</i>				24. Position Classification Standards Used in Classifying/Grading Position JFS 1300T				
Typed Name and Title of Official Taking Action Lori Penn, Human Resources Specialist				Information for Employees <i>The standards and information on their application, are available in the personnel office. The classification of the position may be reviewed and corrected by the agency or the U.S Office of Personnel Management. Information on classification/job grading appeals, and complaints on exemption from FLSA, is available from the personnel office or the U.S Office of Personnel Management.</i>				
Signature /s/ Lori Penn		Date 01/01/2002						
25. Position Review	Initials	Date	Initials	Date	Initials	Date	Initials	Date
a. Employee (Optional)								
b. Supervisor								
c. Classifier	CS	08/20/13 *						
26. Remarks Changed SCEP to Pathways								

27. Description of Major Duties and Responsibilities (See Attached)

1399, Student Trainee (Hydrology), GS-11

PD Tracking Number 0000018

Standard PD S0231

Introduction

The incumbent of this position serves as a student trainee under the Pathways Internship Program. This program is designed to provide the student with paid work experience and orient them to the mission of the U.S. Geological Survey and the benefits and conditions of a Federal career. It provides formal periods of work and study while the student is enrolled in school, the conditions of which are outlined in the Working Agreement that must be signed by the student, and the employing Office.

-

Major Duties

The incumbent of this position is a hydrologist with responsibility for participating on hydrologic studies of considerable scope and complexity, or serving as a Project Chief for studies that are more conventional or limited in nature. Project activity typically involves { }.

Serves as a Project Chief or senior project member for complete hydrologic investigations by planning, conducting, and reporting on interpretive studies that typically require modification of established techniques or procedures and extensive collection, interpretation, analysis, and evaluation of hydrologic data.

Develops approaches, standards, methods, guides, and procedures for conducting the interpretive study and provides advice, interpretation, and training to other professionals in the application or modification of established standards, methods, and procedures to ensure adequate treatment and thorough consideration of anomalous study conditions or situations.

Coordinates immediate and long-range study objectives and plans, and the scheduling and establishment of priorities to ensure that they do not conflict with the overall water resources management program.

Discusses agreements, study methods, approach, techniques, and desired results with management and representatives of cooperative agencies to implement hydrologic studies. Reconciles differences in approach or scope of study objectives in order to develop a comprehensive and scientifically sound report that can be used for comprehensive water resource management decision-making.

Maintains a high level of competence in his/her discipline specialty, a working competence in other

technical disciplines, and an awareness of new technological developments in hydrology; develops methods for applying techniques and modifying such, as required, in the study of local hydrologic or related water resource problems and demonstrates or utilizes new or modified techniques in the comprehensive study of water resources for specific geographic areas of investigation.

Prepares reports of findings for complete hydrologic interpretive studies summarizing the results of hydrologic investigations and technically reviews parts of reports prepared by project team members.

Develops project proposals or descriptions that summarize critical information relating to the objective, approach, funding, and expected results of proposed investigations, and defends recommendations for initiation of new projects to higher level management.

Maintains liaison with employees of Federal and State Governments, local officials, and private organizations who are affected by, or otherwise have a shared interest in, water resource management practices and problems in the regional area; provides technical advice and information on water resource problems of mutual concern.

Operates a motor vehicle as an incidental driver.

Factor Statements

FACTOR 1 - KNOWLEDGE REQUIRED BY THE POSITION (Level 1-7, 1250 points)

- Knowledge of water management practices and procedures as well as broad and varied hydrologic study techniques sufficient to analyze and interpret hydrologic data and information, to analyze the existence and feasibility of water resource management alternatives, and to prepare data and interpretive findings in support of study conclusions for publication.
- Familiarity with related fields such as hydraulics, engineering, geology, geochemistry, biology, and soil sciences sufficient to incorporate considerations from these disciplines in the review and study of water management problems, plans, and activities.
- Knowledge of administrative procedures sufficient to develop work plans and budgetary requirements for the personnel, equipment, and material necessary to implement project plans.
- Knowledge of USGS and WRD publication requirements and skill in the preparation of reports which clearly present scientific findings, interpretations, conclusions, and recommendations.

FACTOR 2 - Supervisory Controls (Level 2-4, 450 points)

The supervisor sets the overall objectives and program emphasis and works with the employee in developing project priorities. The hydrologist is responsible for independently planning own work, coordinating this work with other hydrologists or resource specialists, resolving technical problems, deciding on the necessity for and kind of technical compromise required by particular financial, manpower, or instrumentation constraints, and finalizing all assignments. The hydrologist keeps

the supervisor informed of possible adverse reactions, publicity, or cooperator interest that might arise from study findings or conclusions. The individual's analysis, recommendations, and conclusions are relied upon as being technically correct. Completed work is reviewed for adherence to overall program policies and attainment of study objectives and deadlines.

FACTOR 3 - GUIDELINES (Level 3-3, 275 points)

The guidelines are primarily Water Resources Division policies, operating program guidelines, and scientific reference literature. Precedent studies often provide procedural guides or methodology, but studies typically require development of a "tailor-made" approach, due to differences in study objectives, the geology or hydrology of a given study area, the depth of investigation, or the techniques available for data collection or model simulation of the hydrologic system. The hydrologist independently adapts or extends the guidelines or chooses from among alternative study procedures in attempting to achieve optimum information on which to base hydrologic interpretations. The individual uses judgment and ingenuity in developing and implementing project plans as well as directing and overseeing project investigations.

FACTOR 4 - COMPLEXITY (Level 4-4, 225 points)

Assignments involve the development of techniques, methods, and procedures for the study of local or regional hydrologic conditions. The work is complicated by interrelated factors which must be considered simultaneously, such as: (1) multi-disciplinary aspects of a study; (2) the varied nature of surface water velocities, ground water flow direction, storage capacity, flow boundaries, recharge characteristics, and water chemistry; 3) complex aspects of model calibration when used as a predictive study tool; (4) varied surface and subsurface geology; (5) varied land use conditions such as spatial and temporal variation in urbanization and non-uniform water supply development practices.

The work requires the hydrologist to isolate specific variables to be considered in the study in order to describe conditions impinging on the storage, movement, and use of ground and surface water within varied surficial and subsurface geologic environments, to evaluate natural and man-induced water the evaluation of collected data. The hydrologist must be versatile and innovative in approach and be able to adopt or extend established techniques or methods to overcome existing study problems.

FACTOR 5 - SCOPE AND EFFECT (Level 5-3, 150 points)

The purpose of the work is to investigate and analyze any of a variety of hydrologic problems and to provide or recommend alternatives for water resources planning, management, and decision-making. Results of the work can potentially affect the quantity or quality of water available for use in local areas and the socio-economic well-being of dependent communities and industries. Study procedures, techniques, or results may also serve as a basis for similar hydrologic assignments or studies carried out by other hydrologists.

FACTOR 6, PERSONAL CONTACTS (Level 6-3, 60 points)

Establishes and maintains contact with a technical staff of cooperators; scientists and community planners in other Federal, state, or local agencies; as well as hydrologists and support personnel in the immediate organization. Contacts are also made with consultant hydrologists and engineers as well as landowners, the general public, and contract personnel.

FACTOR 7 - PURPOSE OF CONTACTS (Level 7-2, 50 points)

Contacts are for the purpose of coordinating operational aspects of cooperative projects and study methods; to exchange information and resolve operational problems; to determine the applicability of state-of-the-art technology and existing study techniques to current project assignments; to develop new ideas and interpret methods and procedures; to reconcile conflicting viewpoints; to obtain information from cooperating agencies or other sources as required; and to provide advice and expertise in hydrologic principles for the solution of problems. Contacts are also to gain acceptance for use of different study techniques and methodologies; persuade reluctant landowners to provide access to study areas; and to provide information to individuals and organizations interested in the study findings, conclusions, and recommendations.

FACTOR 8 - PHYSICAL DEMANDS (Level 8-2, 20 points)

The work requires frequent physical exertion while conducting field portions of project work and with inspection of ongoing operations, including walking over rough, rocky, or uneven terrain; lifting and carrying equipment and supplies; and wading in streams in all types of weather.

FACTOR 9 - WORK ENVIRONMENT (Level 9-2, 20 points)

The work involves some degree of risk when conducting on-the-ground assessment of operations as well as exposure to moderate discomfort from such extremes as heat, cold, and inclement weather.

Please check the appropriate statement:

The U.S. Geological Survey has determined that the duties of this position are suitable for telework only during an emergency or natural disaster.

The U.S. Geological Survey has determined that the duties of this position are suitable for telework and the selectee may be allowed to telework with supervisor approval.

The U.S. Geological Survey has determined that telework is required for this position and is a condition of employment. The selectee is expected to telework ___ day s a week and must be eligible to telework under the 2010 Telework Act.

TOTAL POINTS - 2500

GRADE CONVERSION - GS-11

GS-1300, Job Family Standard for Professional Physical Science Work, 10/97

Introduction to the Position Classification Standards
Primary Standard
(Source Document Std PD S0231)