POSITION DESCRIPTION *(Please Read Instructions on the back)*

1. Agency Position No	2. Reason for Submission	3. Service	4. Employing Office Location	5. Duty Station	6. OPM Certification No
S0400	NEW				

Explanation	7. Fair Labor Standards Act	8. Financial Statements Required	9. Subject to IA Action
	Non-exempt		NO

10. Position Status	11. Position is	12. Sensitivity	13. Competitive Level Code	14. Agency Use
Competitive	NON-SUPERVISORY	1 - Nonsensitive/Low		

15. Drug Test Required	16. ADP Status
NO	NO

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		GS	*	5	K . S	05/28/2008
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	c. Third Subdivision
U.S. DEPT. OF THE INTERIOR	
a. First Subdivision	**d. Fourth Subdivision**
U.S. GEOLOGICAL SURVEY	
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 statuory 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		b. Typed Name and Title of Higher-Level Supervisor or Manager *(optional)*	
Mark Sogge, Acting Deputy Director, USGS			
Signature	**Date**	**Signature**	**Date**
/s/ Mark Sogge	07/30/2015		

23. Classification/Job Grading Certification	24. Position Classification Standards Used in Classifying/Grading Position
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.	GS-150, Geography Series GS-400, GLG for Aid and Tech Work in the Bio Sci GS-408, Ecology Series GS-1300P, JFS for Prof Phy Sci Work
Typed Name and Title of Official Taking Action	**Information for Employees**
Kevin Scott — Human Resources Specialist (Classification/Policy)	*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.*
Signature / **Date**	
Kevin Scott /s/ — 05/28/2008	

25. Position Review	Initials	Date	Initials	Date	Initials	Date	Initials	Date	Initials	Date
a. Employee *(Optional)*										
b. Supervisor										
c. Classifier										

26. Remarks

This is an interdisciplinary position and can be classified as a Geologist, GS-1350, Hydrologist, GS-1315, Biologist, GS-0401, Cartographer, GS-1370, Geophysicist, GS-1313, Geographer, GS-150, Chemist, GS-1320,Ecologist GS-408

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

1350,NAGT/USGS Cooperative Summer Field Training Program **(Interdisciplinary)**,GS-05

Based on PD Tracking Number 0005119

PD Tracking Number 0005135

INTRODUCTION

This position is part of the National Association of Geoscience Teachers (NAGT)/USGS Cooperative Summer Field Training Program. As a NAGT participant, the employee works in a field, laboratory, or office environment and assists higher-grade scientists. The work is designed to complement the incumbents existing scientific background in preparation for more advanced work experiences. Based on the major duties checked below, this interdisciplinary position may be filled within one of the following occupations:

Geologist, GS-1350
Hydrologist, GS-1315
Biologist, GS-0401
Cartographer, GS-1370
Ecologist, GS-408
Geophysicist, GS-1313
Geographer, GS-150
Chemist, GS-1320

MAJOR DUTIES

As part of the NAGT Program, the incumbent may perform one or more of the following types of duties:

A. Geology Type Duties:

{ }Field Study: Perform, or assist in conducting, geologic mapping; and make field identification of rocks and minerals. Collect and describe representative samples of fossils, rocks, mineral deposits, stream sediments, and panned concentrates. Prepare samples for further analysis.

{ }Laboratory Study: Select and prepare samples by sawing, sieving, grinding, mounting, polishing, etching, etc., for use in chemical, physical, and mineralogical analysis. Perform separations of minerals. Maintain sample inventories and document observations of experimental effects. Perform laboratory study of rocks and minerals and other geologic materials, utilizing appropriate procedures specialized equipment. Maintain cleanliness of laboratories and keep them stocked with necessary supplies.

{ }Analysis and Reporting of Scientific Information: Assemble and evaluate field data and plot

information on maps, sections, graphs, tables, and other diagrams using GIS when appropriate. Prepare preliminary interpretive compilations of geologic data. Assist in the preparations of reports pertaining to geologic research.

B. Hydrology Type Duties:

{ }Surface Water: Perform routine measurements of stage and discharge under a variety of field conditions. Observe and note hydraulic or environmental conditions. Compute and check surface-water records from field data where hydrologic conditions are stable. Plot discharge measurements and estimate short periods of missing records. Develop preliminary stage-discharge and/or velocity index curves and ratings. Review gage-height data and discharge measurements to check methods and accuracy of computation. Plot hydrographs for comparing records. Perform steps involved in preparing basic material for publication, including maps, tables, and other illustrative material. Prepare plots, drafts, or sketches from surveying field notes. Verify the accuracy of data summaries.

{ }Ground Water: Perform routine water-level and discharge measurements from wells and springs. Observe and note hydraulic or environmental conditions. Compute and check ground-water records from field data. Plot water-level measurements. Perform the steps involved in preparing material for publication, including maps, tables, and other illustrative material. Prepares plots, drafts or sketches from surveying field notes. Collect well location and characteristic information. Verify the accuracy of data summaries. Maintain files of geophysical logs.

{ }Water Quality: Perform field water-quality measurements such as water temperature, specific conductance, pH, dissolved oxygen and alkalinity. Various field conditions require a number of steps to collect representative data. Process samples and perform field or lab analyses of sample constituents. Prepare and ship samples for lab analyses. Prepare summaries and data reports of field activities, including the preparation of materials for publication, such as tables of data, map, and other illustrative material. Assemble, evaluate and prepare field and laboratory data for tabulation analysis and subsequent publication.

{ }Sediment: Collect, process, and check sediment samples. Collect and check straightforward measurements. Enter sediment data into the water-quality and/or daily-values file using automated systems. Assemble and prepare data for tabulation and subsequent publication. Collect samples.

{ }Instrumentation: Perform installation, maintenance, servicing, and troubleshooting of sensing, recording and communications equipment and instrumentation. Prepare repair logs for hydrologic instrumentation. Calibrate meters and analytical equipment.

C. Biology Type Duties:

{ }Collect data from field investigations and make observations. Report observations in field notes for use of higher grade-level employees. Search published technical sources for information on designated topics and prepare summaries for reference.

{ }Assist with studies by senior biologists and prepare reports on fish and /or wildlife resources.

{ }Prepare samples and perform data analysis. Draft assigned portions of reports. Prepare graphs

and charts.

{ }Prepare correspondence pertaining to technical aspects of the work.

{ }Assist with planning, organizing, and implementing biological investigations that affect wildlife and/or habitat conditions. Prepare reports on progress and result of studies.

{ }Assist with gathering, organizing, and interpreting biological, ecological, pathological, public use, or other information.

D. Cartography Type Duties:

{ }Prepare base maps on scale-stable material from USGS and other map products, for use in field work and in published reports.

{ }Participate in the preparation of final illustrations for use in reports on scientific studies.

{ }Prepare digital image processing products, using the latest GIS technology and techniques.

{ }Gather, modify, and encode digital spatial data; and operate automated GIS equipment and peripherals.

{ }Perform darkroom procedures, using a wide variety of films, processing speeds, and developing chemicals.

{ }Analyze and evaluate cartographic program data.

{ }Participate in cartographic studies and projects.

E. Geography Type Duties:

{ }Analyze mapped or remotely sensed data in support of efforts to map and quantify spatial characteristics.

{ }Assist with the design and preparation of publications-ready maps and graphics, using GIS technology.

{ }Compile data sets for ARC/INFO databases.

F. Geophysics Type Duties:

{ }Accumulate and compile data on geophysical phenomena through the operation of scientific instruments.

{ }Analyze geophysical data to help ensure that instrumentation is functioning properly.

{ }Process geophysical data through application of established mathematical formulas.

{ }Adapt small computer programs for the analysis of geophysical data.

{ }Participate in activities such as: well monitoring and analyzing strain measurements; borehole drilling; magnetic surveying on volcanoes; self potential surveying on volcanoes; borehole seismometer installation; measuring physical properties of core samples, installing permanent, telemetered broadband digital seismic instruments; installing satellite telemetry systems; operating high-precision GPS instruments and performing differential corrections on GPS data; and working on active-seismology data collection projects using portable seismic instruments and operation of active-seismology source devices.

G. Ecology Type Duties:

{ }Collect data concerning fish and invertebrate food webs and their changes.

{ }Participate in the investigation of patterns of interactions between organisms and physical environment factors.

{ }Participate in studies of the distribution and density of organisms that live in ecosystems.

H. Chemistry Type Duties:

{ }Assist with limited chemical analyses, physical measurements, and tests including physical tests, web laboratory analyses, and instrumental analyses. These tests and analyses are used to determine the chemical composition of substances, presence, and the identification of compounds in samples.

{ }Perform calculations such as determining concentration or the amount of a substance. May perform computer programming used for the analysis and reduction of data.

{ }Perform developmental assignments in writing limited sections of laboratory reports identifying the samples analyzed, the methods used, and the results.

FACTOR 1-KNOWLEDGE REQUIRED BY THE POSITION

Professional knowledge of physical, biological, and/or earth science principles, theories, and practices as typically acquired through a bachelors degree program sufficient to perform basic trainee-level duties.

FACTOR 2-SUPERVISORY CONTROLS

The supervisor assigns work with specific and detailed instructions as to the methods, procedures, and guidelines to use. The incumbent works in accordance with the instructions, referring to a higher level scientist any matter not covered in the instructions or guidelines. The work is reviewed in progress and upon completion for technical accuracy, adequacy, and compliance with instructions and established procedures.

FACTOR 3-GUIDELINES

Guidelines include standard scientific references, technical manuals and guidebooks, directives and project work plans, and established operating procedures which are specific and directly applicable to the work assignment. The incumbent works in strict adherence to the guidelines, consulting with the project chief or supervisor prior to deviating from established guidelines or study procedures.

FACTOR 4-COMPLEXITY

Assignments consist of specific, well-defined duties involving well-established methods and procedures that are designed to orient the scientist in the work and mission of the project to which assigned. The tasks are routine and generally entail readily identifiable phenomena and scientific conditions. Problems encountered can be solved typically by minor method modification or adaptation.

FACTOR 5-SCOPE AND EFFECT

The purpose of the work is to orient the scientist in the practical application of scientific theory and principle and in the mission and work of the project. The work efforts aid higher-level scientists in the completion of project assignments.

FACTOR 6-PERSONAL CONTACTS

The personal contacts are with scientists and technical support personnel working on the project and on other closely-related projects within the organization.

FACTOR 7-PURPOSE OF CONTACTS

The contacts are for the purpose of receiving instructions, resolving problems concerning assignments, exchanging information, and reporting on the progress and results of work performed.

FACTOR 8-PHYSIAL DEMANDS

The work is primarily sedentary, but may involve prolonged standing in the laboratory environment. Field assignments involve outdoor work where there is considerable walking and climbing over rough or mountainous terrain.

FACTOR 9-WORK ENVIRONMENT

Work is performed primarily in a field, laboratory or office setting. Work performed in the laboratory may involve use of equipment which can result in exposure to dust, toxic chemicals, mechanical and electrical hazards, and noise. Special safety precautions are required including use of laboratory coats, safety glasses, dust masks, gloves, etc. Work in the field involves exposure to a range of weather and temperature conditions with exposure to poisonous growth and insects.