

POSITION DESCRIPTION						
1. Position Number			2. Explanation (show any positions replaced)			
3. Reason for Submission <input type="checkbox"/> New <input type="checkbox"/> Redescription <input type="checkbox"/> Reestablishment <input type="checkbox"/> Standardized PD <input type="checkbox"/> Other						
4. Service <input type="checkbox"/> HQ <input type="checkbox"/> Field	5. Subject to Identical Addition (IA) Action <input type="checkbox"/> Yes (multiple use) <input type="checkbox"/> No (single incumbent)					
6. Position Specifications Subject to Random Drug Testing <input type="checkbox"/> Yes <input type="checkbox"/> No Subject to Medical Standards/Surveillance <input type="checkbox"/> Yes <input type="checkbox"/> No Telework Suitable <input type="checkbox"/> Yes <input type="checkbox"/> No Fire Position <input type="checkbox"/> Yes <input type="checkbox"/> No Law Enforcement Position <input type="checkbox"/> Yes <input type="checkbox"/> No		7. Financial Statement Required <input type="checkbox"/> Executive Personnel-OGE-278 <input type="checkbox"/> Employment and Financial Interest-OGE-450 <input type="checkbox"/> None required		10. Position Sensitivity and Risk Designation <u>Non-Sensitive</u> <input type="checkbox"/> Non-Sensitive: Low-Risk <u>Public Trust</u> <input type="checkbox"/> Non-Sensitive: Moderate-Risk <input type="checkbox"/> Non-Sensitive: High-Risk <u>National Security</u> <input type="checkbox"/> Noncritical-Sensitive: Moderate-Risk <input type="checkbox"/> Noncritical-Sensitive: High-Risk <input type="checkbox"/> Critical-Sensitive: High-Risk <input type="checkbox"/> Special Sensitive: High-Risk		
		8. Miscellaneous Functional Code: -- BUS: --	9. Full Performance Level Pay Plan: Grade:			
11. Position is <input type="checkbox"/> 2-Supervisory <input type="checkbox"/> 4-Supervisor (CSRA) <input type="checkbox"/> 5-Management Official <input type="checkbox"/> 6-Leader: Type I <input type="checkbox"/> 7-Leader: Type II <input type="checkbox"/> 8-Non-Supervisory		12. Position Status <input type="checkbox"/> Competitive <input type="checkbox"/> SES <input type="checkbox"/> Excepted (specify in remarks) <input type="checkbox"/> SL/ST		15. Fair Labor Standards Act <input type="checkbox"/> Exempt <input type="checkbox"/> Nonexempt		
	13. Duty Station	14. Employing Office Location	16. Cybersecurity Code #1: #2: -- #3: --			
18. Classified/Graded by	Official Title of Position		Pay Plan	Occupational Code	Grade	Initial Date
a. Department, Bureau, or Office						
b. Second Level Review			--		--	
19. Organizational Title of Position (if different from, or in addition to, official title)			20. Name of Employee (if vacant, specify)			
21. Department, Agency, or Establishment U.S. Department of the Interior			c. Third Subdivision			
a. Bureau/First Subdivision			d. Fourth Subdivision			
b. Second Subdivision			e. Fifth Subdivision			
22. 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, but not limited to: FLSA determinations; position sensitivity and requirements; and appointment/payment of public funds. False or misleading statements may constitute violations of such statutes or their implementing regulations.						
a. Typed Name and Title of Immediate Supervisor			b. Typed Name and Title of Higher-Level Supervisor or Manager (optional)			
Signature		Date	Signature		Date	
23. Classification/Job Grading Certification. 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.			24. Position Classification Standards Used in Classifying/Grading Position			
Typed Name and Title of Official Taking Action						
Signature		Date				
25. Position Review	Initials	Date	Initials	Date	Information for Employees. 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.	
a. Supervisor						
b. Classifier						
26. Remarks						

DOI Standard PD
PD# DN00900

Classification: Hydrologist, GS-1315-09

INTRODUCTION

This position is located in an operating office (Office) within a bureau or bureau equivalent office (Bureau) within the Department of the Interior (Department). This position is responsible for performing with considerable latitude for the exercise of independent judgment, moderately difficult and responsible work with independent responsibility for applying established technology in routine ways to well-defined, moderate sized physical science projects.

MAJOR DUTIES (80-100%):

Serves as a project member contributing to larger studies or performing limited independent studies with a narrow scope. Applies a full range of established hydrologic techniques or procedures. Collects, interprets, analyzes and evaluates hydrologic data. The complexity of assignments requires application of a full range standard procedures, methods, and techniques. Makes minor modifications to approaches and standard methods to meet conditions of the study. Plans and performs hydrologic studies of moderately complex systems in accordance with applicable authorizations, policy, and regulatory requirements. Uses comprehensive process or computer models simulate hydrologic conditions and inform operations.

Works on issues whose solutions require a proven understanding of hydrologic complexities of ground or surface water flow. Conducts evaluations of single-basin or moderately complex multi-basin environments investigating quantity and/or quality in adherence with all management-based water resource policies. Results may contribute to larger projects involving environmental analysis and disclosure of the proposed impacts as required by the US Environmental Protection Agency or other regulatory bodies. The scientist carries out a range of monitoring/mitigation measures designed to minimize adverse impacts.

Provides current information on resource management and technical requirements. Works with State, local and/or tribal land managers to advise on water resources management practices consistent with Clean Water Act, Safe Drinking Water Act, Federal Land Management Policy Act, and the National Environmental Policy Act, state laws, and various regional, State, Federal, and local policies and procedural guidance and with Interior Board of Land Appeal decisions. Collects and interprets data for land and/or facilities managers. Contributes to team efforts to implement landscape-level projects to restore watersheds, improve water quality, protect federal water rights, and protect Wild & Scenic Rivers.

Contributes to investigative project proposals, work plans and protocols which includes evaluation of data from various sources and may include extensive literature review. Contributes to interpretive studies and large-scale hydrologic projects. Performs analyses and evaluations and formulates scientific findings. Discusses agreements, study methods, approach, techniques, and desired results with senior scientists. Reconciles differences in approach or scope of study objectives in order findings provide a sound foundation for resource management decisions. Provides technical advice and information on water resource problems.

Plans and performs a wide range of data collection assignments. Conduct of these investigations requires application of experienced professional judgment as well as advanced analytical methods. Results of such investigations may serve as references for water managers and cooperating agencies.

OTHER DUTIES (non-grade controlling, non-series controlling)

Performs a range of standard tests to determine the chemical and/or biological components of water samples. Follows standard protocols and procedures in accordance with published guidance and local procedures and suggests minor adaptations to account for changes in conditions or to fill in gaps in data sets.

Serves as a point of contact with cooperating agencies and/or resource managers in the conduct of water-resources investigations.

Participates in periodic meetings with cooperating officials to discuss program technical accomplishments and resource requirements.

Analyzes, prepares, develops and publishes river volume or flood forecasts for one or more basins.

Uses relational databases and related applications to maintain hydrologic data for conducting operational support and planning analyses

Performs other similar duties as assigned.

FACTOR STATEMENTS

FACTOR 1 - KNOWLEDGE REQUIRED BY THE POSITION Level 1-6, 950 points

Knowledge of hydrologic science, methods and techniques and water management practices and procedures as well as hydrologic study techniques sufficient to analyze and interpret hydrologic data and information and to prepare data and interpretive findings in support of study conclusions applying a variety of well-established techniques and methods.

Knowledge of and skill in using standard equipment and technology to conduct hydrologic studies and gather data. Skill in analyzing data using standardized methods and procedures and identifying clear anomalies due to equipment malfunctions, interference, and misread gages. Ability to use standardized procedures and practices to compensate for missing or conflicting data.

Knowledge of applicable Federal statutes, State, local and municipal laws, when applicable, agency and bureau regulations, policies, and procedures, governing individual programs related to ground and surface water, water quality, and water availability. Ability to apply this knowledge to resource management reviews and/or cooperative study agreements.

Ability to serve on technical teams and coordinate and collaborate with other scientists to accomplish study objectives.

Knowledge of publication requirements and fundamental science practices applied to preparation of reports which clearly present scientific findings, interpretations, conclusions, and recommendations.

Skill in communicating scientific data orally and in writing to both technical and non-technical personnel.

FACTOR 2 – SUPERVISORY CONTROLS Level 2-3, 275 points

The supervisor or senior scientist assigns work by outlining overall objectives and discussing possible problems that may be encountered in the course of the work. Assignments have clear precedents.

The scientist independently plans and carries out work in accordance with accepted policies practices and instructions bringing controversial issues or unusual problems to the attention of the supervisor.

Completed work is reviewed for adherence to overall program policies, feasibility of recommendations, and effectiveness of the approach used.

FACTOR 3 - GUIDELINES

Level 3-3, 275 points

Guidelines include policy, procedural, and technical manuals and handbooks, standard professional practices, published research results and related scientific reports, annual work plans, and oral instructions from the supervisor or senior scientist. Guidelines may have gaps in specificity that require interpretation and/or adaptation for application to issues and problems.

The scientist uses resourcefulness and experienced judgment in adapting guidelines to meet study conditions.

FACTOR 4 - COMPLEXITY

Level 4-3, 150 points

Assignments involve the application of complex existing processes and procedures for the study of local or regional hydrologic conditions. Work involves analysis of problems and conditions unique to the assignment(s), selecting appropriate course of actions based on a number of possible approaches and conducting analysis to achieve results.

The work requires the scientist 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/or surface water within varied surficial and subsurface geologic environments, to evaluate natural and man-induced water quality conditions in hydrologic systems; and to draw scientifically correct conclusions from the evaluation of collected data.

The scientist must be able to adapt or extend well-established techniques or methods to overcome existing study problems.

FACTOR 5 - SCOPE AND EFFECT

Level 5-3, 150 points

The scope of the scientist's work involves a broad range of complex, conventional problems. The work requires a thorough professional knowledge of hydrologic processes and the effects of natural or human-induced stresses on the environment.

Reports summarizing results of investigations into water resource problems affect the operation and adequacy of investigations, the research conclusions, and the value of investigative activities to the immediate organization and/or its cooperating agencies.

FACTOR 6 - PERSONAL CONTACTS

Level 6-2, 25points

Typical contacts are with landowners, resource managers and other members of the general public and with scientists and others inside the bureau, but from different regional and/or functional areas of the bureau.

FACTOR 7 - PURPOSE OF CONTACTS

Level 7-2, 50 points

Contacts are for the purpose coordinating work efforts with co-workers, resolving operating problems, disseminating information, and advising on work efforts.

FACTOR 8 – PHYSICAL DEMANDS

Level 8-1 5 pts or Level 8-2 20 pts

(Level 8-1) The work is typically performed in an office setting with no special physical demands. However, work may also be performed in the field which involves periods of walking, bending, climbing,

or driving motor vehicles to worksites. The work may also involve some overnight travel for training, meetings, and site visits.

(Level 8-2) The work regularly combines both office and field assignments. Field work requires physical exertion, such as long periods of standing, or recurring and considerable walking, stooping, bending, crouching, crawling, and climbing such as in regular and periodic construction activities and field inspections. Work may also include frequent lifting of moderately heavy items weighing less than 50 pounds. Field assignments may also involve operating small watercraft, driving motor vehicles to work sites, some of which may be remote, and include overnight stays in remote locations.

FACTOR 9 – WORK ENVIRONMENT

Level 9-1 5 pts or Level 9-2 20 pts

(Level 9-1) The work is usually performed in an office setting. However, work time may also be spent periodically visiting field sites. Field site visits are typically performed in either an outdoor setting subject to weather changes, diverse terrain, and safety hazards associated with working around complex features and/or construction, or an industrial setting subject to noise, fumes, and moving machinery. Both settings may require the use of personal protective equipment. Safety precautions and protocols are observed at all times and the scientist complies with safety instructions and regulations and ensures individual and others’ safety by promptly reporting unsafe acts, unsafe conditions, and accidents to the supervisor.

(Level 9-2) The work involves regular and recurring exposure to moderate risks, discomforts, and unpleasantness such as: high noise levels, infectious materials, or toxic or irritating chemicals; travel in safety approved small aircraft and water craft; high winds and low or high temperatures; infestation of dangerous reptiles or poisonous plants, snakes, or insects; adverse weather conditions; noxious fumes; flammable liquids; or radiation. The work involves performing tasks in close proximity to rotating heavy mechanical and electrical machinery and may involve working within confined spaces for extensive periods of time. Special safety precautions such as protective clothing and gear are necessary. Safety precautions and protocols are observed at all times and the scientist complies with safety instructions and regulations and ensures individual and others’ safety by promptly reporting unsafe acts, unsafe conditions, and accidents to the supervisor.

OTHER SIGNIFICANT FACTS

Position may be required to operate a motor vehicle as an incidental driver. Employees who operate a motor vehicle on public roadways require a valid drivers’ license.

Position may be required to operate or be a passenger in small watercraft. Employees who operate a small watercraft are required to possess safety certification or pass an appropriate safety training course commensurate with watercraft used in the performance of duties.

Positions involving arduous field work may require a pre-employment medical examination.

TOTAL POINTS – 1885-1915

GRADE CONVERSION - 1855-2100= GS-9

EVALUATION STATEMENT

STANDARD APPLIED

Job Family Standard (JFS) for Professional Work in the Physical Science Group, GS-1300 December 1997; Introduction to the Position Classification Standards/Primary Standard, revised 8/09

SERIES AND TITLE DETERMINATION

The JFS defines the 1315 series as positions that involve professional work in hydrology, the science concerned with the study of water in the hydrologic cycle. The work includes basic and applied research on water and water resources; the collection, measurement, analysis, and interpretation of information on water resources; the forecast of water supply and water flows; and the development of new, improved or more economical methods, techniques, and instruments.

The basic title for this occupation is Hydrologist.

GRADE LEVEL DETERMINATION

The 1300 JFS is a narrative standard. When applying narrative standards each position is placed at the grade with the descriptive material that best represents the overall work of the position. The standard describes the GS-07 level at that of an advanced trainee performing somewhat difficult work requiring advanced scientific training and exercise of limited independent technical judgment. Work of the position exceeds the GS-07 level.

The standard describes the GS-09 as performing work assignments with independent responsibility for applying established technology in routine ways to well-defined, moderate sized projects, but GS-9s might also work in support of larger projects using less established technology. GS-9 scientists are responsible for organizing the work, following prescribed methods and guidelines, and recognizing conditions and results that may affect the findings. Like work described at the GS-09 level in the standard, this position has independent responsibility for limited studies or phases of larger, more complex studies. Like work described in the illustrations at the 9 level in the standard, the position follows prescribed plans, applies conventional methods, evaluates data, identifies trends, and provides oral and/or written summaries of results. GS-9 scientists are responsible for organizing the work, following prescribed methods and guidelines, and recognizing conditions and results that may affect the findings. By comparison, GS-7's are held accountable primarily for the accurate application of standard methods, techniques, and procedures.

At the GS-11 level, work is performed with wide latitude for the exercise of independent judgment. The work typically involves conventional methods and techniques, though going beyond clear precedents, and requires adapting methods to the problems at hand and interpreting findings in terms of their scientific significance. The position under review does not typically go beyond established methods and precedents and therefore does not meet the GS-11 level.

As the work fully meets, but does not exceed, descriptions at the GS-09 level in the JFS, the position is properly classified as Hydrologist, GS-09.