

CLASSIFICATION SPECIFICATION

FLSA:	EXP	Job Code:	ACV36377
Job Class Code:	600	Salary Schedule:	AREG
EEO Category:	02	Grade:	23
Workers Comp Code:	9410		

Job Code Established:	06/10/88	Effective Date:	
Job Code Revised:	10/01/98	Effective Date:	

JOB CODE SERIES: Research Series

JOB CODE TITLE: RESEARCH GEOLOGIST

HRIS TITLE: RESEARCH GEOLOGIST

WORK DESCRIPTION: Performs professional research work in the production and dissemination of scientific data and data analysis and providing technical advice, research and planning services in the field of geology and metallic mineral resources of Arizona. Supervises graduate students.

WORK ACTIVITIES: performs professional research work in field of geology and metallic mineral resources of Arizona. Plans, organizes, and leads major research investigations or studies for the agency involving expertise in geologic field mapping and geotechnical laboratory and field testing. Compiles and interprets geological data acquired by review of maps, journal articles, reports, field notes, photographs, slides, computer data files, field samples and observations, and from laboratory analysis. Reviews, analyzes, and writes technical reports, position papers, project publications and geological maps. Acts as expert and/or consultant and staff advisor to agency director and to agency officials, the general public and other agencies needing advice in a geologic specialty. Examines geomaterials to determine composition, characteristics and importance, using sophisticated equipment and complex analytical techniques. Develops recommendations for solution of major geological problems in area of assignment. Oversees and/or coordinates the work of staff geologists and/or graduate research assistants, and volunteers utilized to work in area of assignment and/or with graduate student thesis projects related to area of research. Attends professional conferences and seminars; may present papers and reports; reads professional literature and confers with colleagues; and serves as consultant in area of research. Prepares reports and responds to inquiries concerning geologic hazards and mineral resources of Arizona. Responds to scholarly requests and correspondence for research within scope of area of research assigned. Performs related work as required.

WORK CONDITIONS: Occasional exposure to hazards associated with field and laboratory data gathering, testing, and analysis. Occasional statewide travel may be required.

SUPERVISION: Works under the general direction of the State Geologist.

WORK RESULTS/PRODUCTS: Geological maps, rock units, descriptions, interpretations of geologic history. Published and unpublished reports, mineral resource database, and bibliographies. Presentation of geologic information at public forums.

RESPONSIBILITY: For conducting complex professional level research, interpretation, and analysis in assigned area of geology.

AUTHORITY: To conduct research and/or studies in the field of geology requiring independent selection of sources of action and the resolution of problems within the framework of broad geological principles and administrative guidelines.

KNOWLEDGE, SKILLS AND ABILITIES

Knowledge of: Knowledge of the surface and sub-surface geology of Arizona; Knowledge of the principles and practices involved in planning and conducting research in geologic/mineral resources, environmental geology, and of the application of such principles and practices in the solution of a large variety of economic and scientific problems; Knowledge of geomorphology, geologic field mapping, geologic surveying, laboratory and field investigation techniques; Knowledge of data processing and/or computer analysis; Knowledge of federal and state statutes and agency standards, policies, and procedures applicable to area of research; Knowledge of standard and sophisticated equipment and materials used for measuring, sampling and testing of data and materials.

Skill/Ability to: the use of equipment and instruments used in particular area of research; techniques of sample preparation, testing methodology, interpretation, and drawing conclusions from tests based upon geologic knowledge; preparing written reports of research activities and results; oral and written communication techniques appropriate to program and intended recipient; correctly interpreting geologic and geomorphic relationships and properly describing and portraying their relationships in reports and on geologic maps; work management and work leadership.

SPECIAL SELECTION FACTORS: A doctoral degree in research geology or closely related field appropriate to the area of assignment; OR a Master's degree in research geology or closely related field and five years of professional research experience in geological work appropriate to the area of assignment. Must possess a valid Arizona driver's license at a level appropriate to the position/assignment.