

**GENERAL DESCRIPTION OF CLASS**

The GEOLOGIST 4 is the agency and State expert at a policy level in a field of geological specialization, such as engineering geology, economic geology, petroleum geology, hazard geology or regional geology. Employees in this class plan, direct, and coordinate long-term cooperative funding and technical efforts involving State, local jurisdiction and private sector geologists to address State policy needs and provide overall guidance. The Geologist 4 makes broad resource management recommendations to the Director and the Board, represents the agency when working with other agencies and facilitates the efforts of geologist in Federal and State agencies, academia, and private industry in coordinating the management of nonrenewable resources of the state.

**DISTINGUISHING FEATURES**

This is the fourth level of a four-level series. Employees at this level assume the lead technical and policy role in a significant area of geologic expertise for the State. The significant legal, policy, financial, coordinative, and administrative implications of assignments, responsibility to provide program level interpretations, conclusions, and guidance to agencies, committees, and commissions and leadership in initiating and pursuing complex technical geologic initiatives statewide distinguishes this class from the lower level.

**DUTIES AND RESPONSIBILITIES**

The duties listed below are not inclusive but characteristic of the type and level of work associated with this class. Individual positions may perform all or some combination of the duties listed below as well as other related duties.

**1. Geologic Leadership**

Serve as the technical consultant in partnership with Federal, State and local government and private industry in developing research efforts and technical agendas for multistate seminars, in initiating and guiding long-term multiagency geologic research or data collection efforts, in developing strategies and funding for shared resources or research efforts and in developing geologic conclusions.

**2. Administration**

Establish priorities for work and scheduled investigations and plan and assign projects to staff or other jurisdictions or organizations, considering individual knowledge and experience. Review progress and technical direction for validity and conformance with agency or task force positions and approve reports and recommendations. Provide technical expertise on difficult or sensitive geologic matters. Coordinate activities with other agencies to assure well directed multiagency research efforts, adjusting work levels and project design as required to accomplish work or address new technical findings.

Oversee technical subcontracts and interagency agreements for specialized services. Review preliminary contract plans and specifications to ensure consistency with research objectives for the State and develop contract documents for specialized services by private consultants, exploration companies, and private testing laboratories.

Oversee evaluation of potential hazards, determining feasibility, location, and safe development of projects. Inspect field work of outside agencies, contractors, or private industry to ensure proper application and compliance with rules, regulations and professional standards. Technically review and critique reports, papers, or articles written by professional peers.

Participate in interviewing candidates and effectively recommend hiring staff, evaluate staff performance, provide input on performance appraisals, and counsel employees in work-related activities, personal growth, and career development.

### **3. Program Planning and Coordination**

Plan and develop large scale subprograms or project priorities with Deputy Director, other agencies, or private industry. Establish goals and strategies to accomplish scientific objectives, define the project scope and monitor progress, ensuring proper application of scientific concepts, analyses of geologic data and compliance with State and Federal rules and regulations.

Prepare and coordinate agency or joint proposals for cooperative funding, in-kind service, and joint ventures aimed at meeting large scale geologic needs in topical or regional area of responsibility. Recommend new research initiatives or revised policies and procedures based on changes in the law or State needs and prepare and present reports to management showing accomplishment of goals.

Accompany representatives of State and Federal agencies and private industry on field investigations of potential or existing programs to observe relevant geologic factors to evaluate findings or conditions, and to recommend solutions or courses of action relating to geologic problems and concerns. Attend preliminary meeting with managers and other agency personnel to identify potential existing geological problems, costs, and staff requirements.

### **4. Advice and Consultation**

Provide expert technical advice to supervisors, managers, private industry, professional peers, and local, State, and Federal agencies on issues of deep well drilling, economic mineral potential, strategic economic planning, critical facility siting, and long-term original large-scale geologic mapping.

### **5. Miscellaneous**

Conduct meetings and conferences providing geologic information or facts. Chair or participate on committees to plan and implement special tasks or projects and draft legislation. Prepare estimated project costs involving various activities and studies, evaluate the needs in terms of coordination, staff, and financing and monitor budgets. Conduct independent or team geological investigations. Communicate with other professionals to stay current with latest developments in geological field and to coordinate team oriented geologic efforts.

## **RELATIONSHIPS WITH OTHERS**

Employees in this class have daily contact in person and by telephone with agency supervisors, managers, and geoscientists nationwide to discuss progress on multiagency geologic efforts in Oregon and to recommend action on geological problems or concerns. They also contact, in person, by phone, or in writing, professional peers, private industry, contractors, local, State, and Federal officials and the public.

**SUPERVISION RECEIVED**

Employees in this class work independently and receive general supervision from the Deputy Director who relates goals and objective and assigns subprogram or project responsibilities. Work is reviewed through progress reports, monthly meetings and completed publications to ensure conformity with agency goals and State priorities. Where available, employees in this class follow State and Federal laws, rules, and regulations.

**GENERAL INFORMATION**

Some positions in the class require the willingness to conduct field work in all kinds of weather and terrain and to work extended hours on field trips.

**KNOWLEDGE AND SKILLS (KS)**

Extensive knowledge of the theories, principles, practices, and techniques of geology, to be a recognized authority in area of specialization.

Extensive knowledge of a geological field of specialization, such as engineering geology or economic geology.

Extensive knowledge of integrated geologic mapping techniques.

Extensive knowledge of state-of-the-art knowledge in an assigned specialty of geology having policy and priority significance to the State of Oregon.

Extensive knowledge of field and laboratory techniques used in geologic investigations.

Extensive knowledge of goals, programs, and staff of sister agencies and firms with which joint ventures are developed.

Skill in securing cooperative funds and leveraged cooperation for geologic projects.

Skill in overseeing subcontracted specialized geologic research.

Skill in managing project budget and reporting financial and substantive progress on projects.

Skill in planning complex geologic projects, securing cooperation from industry and other agencies and planning, developing, and determining project and subprogram priorities.

Skill in organizing regional seminars and coordinating and negotiating participation by technical experts from diverse locations and specialties.

Skill in complex mathematical analysis including calculus.

Skill in independently conducting and overseeing field investigations, recording observations, researching and analyzing data collected, and assessing the significance of geologic conditions.

Skill in directing, collecting, organizing, interpreting, and summarizing technical information from various resource documents as part of the project process.

Skill in interpreting geologic and topographic maps, cross sections and profiles, aerial photographs, and other imagery.

Skill in preparing and overseeing team preparation of detailed geological maps, cross sections, and other related maps.

Skill in interpreting information from laboratory test results, drill logs, and other field studies.

Skill in making complex computations of geologic processes.

Skill in organizing, presenting, and writing bulletins, books, reports, and papers of geologic findings and recommendations.

Skill in evaluating potential or existing program directions and projects and recommending solutions to geological problems.

Skill in providing technical information, policy advice, or assistance to agency personnel; private industry; professional peers; local, State and Federal agency officials; and the public.

Skill in interpreting and explaining the laws, rules, and regulations governing geologic projects.

Skill in making oral presentations at public hearings, meetings, and conferences and testifying in court as an expert witness.

Skill in designing, setting up, and monitoring geologic instrumentation.

Skill in communicating orally with a variety of people.

**NOTE:** The KNOWLEDGE and SKILLS are required for initial consideration. Some duties performed by positions in this class may require different KS's. No attempt is made to describe every KS required for **all** positions in this class. Additional KS requirements will be explained on the recruiting announcement.

Adopted 1/90

Revised