

Office of Science's Biological and Environmental Research, Earth and Environmental System Science - Physical Scientist (Program Manager for Environmental System Sciences) GS-1301-13/14

The purpose of this email is to inform the environmental science community of DOE management's intent to fill a Physical Scientist (Program Manager for Environmental System Sciences) GS-13/14 position at the Office of Science's, Biological and Environmental Research, Earth and Environmental System Sciences Division, located in Germantown, MD. In order to be considered for this position, interested applicants must submit an expression of interest by January 4, 2021, with an attached Curriculum Vitae, to Gary Geernaert at Gerald.Geernaert@science.doe.gov. Note that US Citizenship is required for this position.

Anyone interested in this position needs to be aware that, if selected, you will be placed on a new appointment in the Civil Service. A DOE career status employee selected for this position may be required to serve a new one (1) year probationary period, pursuant to 5 CFR 315.802.

Specific Program/Project Assignments Overview

GS-13 Level

- This position serves as a Physical Scientist responsible for the Environmental Systems Sciences (ESS) program. The goal of the ESS program is to advance an integrated, robust, and scale-aware predictive understanding of terrestrial systems, and their interdependent biological, chemical, ecological, hydrological, and physical processes; and will have a particular focus on terrestrial ecology, involving in particular process level and predictive understanding of dynamically changing ecological systems and their coupled interfaces. The incumbent will be recognized as a technical authority on science program management (i.e., program planning, program budget formulation, program implementation, and program evaluation); develops connections and interfaces for projects which may be supported by other divisions within the Office and other programs in the organization, to exploit optimal strategies for environmental research; maintains strategic partnerships within the U.S. Department of Energy (DOE) laboratories, universities, and other research institutions or agencies; and serves as an essential resource to the Office's Environmental Systems Sciences Program.

GS-14 Level

- This position serves as a Physical Scientist responsible for the Environmental Systems Sciences (ESS) program. The goal of the ESS program is to advance an integrated, robust, and scale-aware predictive understanding of the terrestrial systems, and their interdependent biological, chemical, ecological, hydrological, and physical processes; and will have a particular focus on terrestrial ecology, involving in particular process level and predictive understanding of dynamically changing ecological systems and their coupled interfaces. The incumbent will be internationally recognized as a technical authority on

all aspects of science program management (i.e., program planning, program budget formulation, program implementation, and program evaluation); develops connections for projects which may be supported by other divisions within the Office and other programs in the organization, to exploit optimal strategies for environmental research; collaborates in maintaining strategic partnerships within the U.S. Department of Energy (DOE) laboratories, universities, and other research institutions or agencies; and serves as a resource to the Office's Environmental Systems Sciences Program.

- Serves as a technical authority in the process-level science and modeling of environmental systems, with expertise in terrestrial ecology that includes hydro-biogeochemistry, plant-soil interactions, terrestrial-aquatic interfaces (including coastal systems and watersheds), land-atmosphere interactions, and/or disturbance ecology).
- Critically evaluates contractor, DOE laboratory, and grantee research proposals and performance via own scientific and technical judgment, merit review, site visits and reviews, and panel reviews.
- Provides interest in greater participation and collaboration in the Division's research program through similar contacts, and disseminates information developed to the science and technology community.

Knowledge, Skills, Abilities Required to Perform the Work

GS-13

- Mastery of knowledge of the current state of a broad range of the environmental system sciences, including in particular terrestrial ecology, (i.e., hydro-biogeochemistry, plant-soil interactions, terrestrial-aquatic interfaces (including coastal systems and watersheds), land-atmosphere interactions, and/or disturbance ecology), field experiment, analytical methods, data analysis, process modeling, and system modeling, that serves the core research programs.

GS-14

- Mastery of knowledge of the current state of a broad range of the environmental system sciences, including in particular terrestrial ecology, (i.e., hydrobiogeochemistry, plant-soil interactions, terrestrial-aquatic interfaces (including coastal systems and watersheds), land-atmosphere interactions, and/or disturbance ecology), field experiment, analytical methods, data analysis, process modeling, and system modeling, that serves the core research programs.
- Skill and ability to organize diverse groups in the solving of highly complex scientific problems and to identify key synergisms/leverage points that will facilitate major

scientific breakthroughs in the environmental system sciences and terrestrial ecology sciences.

This position has a positive education requirement. Therefore, if subsequently asked and prior to full consideration, you **MUST** be able to provide documentation supporting any education claims in your curriculum vitae. This documentation can include unofficial transcripts or any report listing institution, course title, credits earned and final grade. For specific education requirements, please see the Education Requirements. **If selected, official transcripts may be requested.** Education must be obtained from an accredited institution recognized by the U.S. Department of Education. Foreign education must be reviewed by an organization recognized by the U.S. Department of Education. For special instructions pertaining to foreign education and a list of organizations that can evaluate foreign education, see [the Department of Education website](#).

In addition to the above-referenced experience, applicants must have one of the following to satisfy the basic requirements for this position:

A. **A degree** in physical science, engineering, or mathematics that included 24 semester hours in physical science and/or related engineering science, including specialized courses involving the environmental sciences.

or

B. **A combination of education and experience** - education equivalent to one of the majors shown in A above that included at least 24 semester hours in physical science and/or related engineering science, plus appropriate experience or additional education.

NOTE: OPM Qualification Standards for the GS-1301 series can be found at the following website: <https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/1300/general-physical-science-series-1301/>