HYDROLOGIST

Posting ID: EM1752255D

Company: National Oceanic and Atmospheric Administration

Company Website: http://www.noaa.gov/

Work Location: Wilmington, OH.
State College PA

Position Type: Full-Time

Salary: $40,684 - $97,458 Per Year

College Major(s): Civil Engineering (CEE)

College Level(s): Undergraduate-Junior, Undergraduate-Senior, Graduate Student, PhD. Student

OVERVIEW

NOAA is an agency that enriches life through science. Our reach goes from the surface of the sun to the depths of the ocean floor as we work to keep citizens informed of the changing environment around them.

Roles and Responsibilities
As a Hydrologist, you will perform the following duties:

Perform daily hydrologic forecast functions including short range forecasting of flow, velocity and stage including during high water and flood events, and long range forecasting to include spring snowmelt, flood outlooks and river volume.
Collect, analyze, disseminate, and manage networks of basic water resource data such as information on reservoir and lake storage, ground water levels, and surface ground water quality.
Develop, modify, and utilize applicable state-of-the-art computer hardware and software components in the preparation of studies of hydrological events and problems.
Represent hydrologic and water resource programs at public and interagency meetings and help resolve hydrologic related issues.

Education and Qualifications

Key Requirements
- Must be a U.S. Citizen or National to apply.
- Required to pass a background investigation and fingerprint check.
- Must be suitable for Federal employment.
- Must be registered for Selective Service, if applicable (www.sss.gov).
- Qualifications requirements must be met by closing date of announcement.

Qualifications
Qualification requirements in the vacancy announcements are based on the U.S. Office of

BASIC REQUIREMENTS: This position requires applicants to meet a Basic Education Requirement in addition to at least one year of specialized experience or a substitution of education for experience (GS-07/09/11 only) in order to be found minimally qualified. You MUST meet one of the following basic education requirements:

A. Degree: physical or natural science, or engineering that included at least 30 semester hours in any combination of courses in hydrology, the physical sciences, geophysics, chemistry, engineering science, soils, mathematics, aquatic biology, atmospheric science, meteorology, geology, oceanography, or the management or conservation of water resources. The course work must have included at least 6 semester hours in calculus (including both differential and integral calculus), and at least 6 semester hours in physics. Calculus and physics, as described above, are requirements for all grade levels.

OR

B. Combination of education and experience: course work as shown in A above, plus appropriate experience or additional education.

Experience refers to paid and unpaid experience, including volunteer work done through National Service programs (e.g., Peace Corps, AmeriCorps) and other organizations e.g., professional; philanthropic, religious; spiritual; community, student, social). Volunteer work helps build critical competencies; knowledge, and skills and can provide valuable training and experience that translates directly to paid employment. You will receive credit for all qualifying experience, including volunteer experience.

GS-07:

SPECIALIZED EXPERIENCE: In addition to meeting the Basic Requirements above, applicants must also possess one full year (52 weeks) of specialized experience equivalent to the GS-05 in the Federal service. Specialized experience MUST include all of the following:

Utilizing established procedures and models to assist in the generation of hydrologic reports or forecasts for non-emergency situations (e.g. minor flooding);
Gathering data from a variety of sources for use in hydrologic modeling and/or decision support systems; and
Documenting simple scientific data (e.g. rainfall measurements, flood height, etc.) for use by other scientists.

EDUCATION:

A. One year of graduate-level education in hydrology or a closely related field.

OR

B. Superior Academic Achievement as demonstrated by a bachelor's degree in a related field from an accredited college or university with one of the following. NOTE It is your responsibility
to ensure your application clearly states how you meet one of the provisions below:
a grade point average (GPA) of 3.0 or higher based on a 4.0 scale for all completed undergraduate courses, or those completed in the last 2 full years of undergraduate study;
a GPA of 3.5 or higher based on a 4.0 scale for required courses completed in a major field of study, or those courses completed in a major field of study during the last two years of undergraduate study;
class standing of upper third of the graduating class in the college, university, or major subdivision of the college;
membership in a national Scholastic Honor Society certified by the Association of College honor Societies, excluding freshman honor societies.

OR

COMBINATION: A combination of related graduate level education and specialized experience.

GS-09:

SPECIALIZED EXPERIENCE: In addition to meeting the Basic Requirements above, applicants must also possess one full year (52 weeks) of specialized experience equivalent to the GS-07 in the Federal service. Specialized experience MUST include all of the following:
Utilizing established procedures and models to generate hydrologic reports or forecasts for non-emergency situations (e.g. minor flooding);
Synthesizing data from a variety of sources into hydrologic modeling and/or decision support systems; and
Writing portions of technical reports for use within an organization.

OR

EDUCATION: Master's degree or equivalent graduate degree in hydrology or a closely related field or 2 full years of progressively higher level graduate education leading to such a degree.

OR

COMBINATION: A combination of education and experience as described above.

Note: Only graduate education in excess of one year is qualifying for combination.

GS-11:

SPECIALIZED EXPERIENCE: In addition to meeting the Basic Requirements above, applicants must also possess one full year (52 weeks) of specialized experience equivalent to the GS-09 in the Federal service. Specialized experience MUST include all of the following:
Assisting in the development of hydrologic modeling and analysis procedures for use in forecasting operations; and
Performing hydrologic/hydrometerologic forecasting services for moderately complex situations (e.g. high water or flood situations); synthesizing data from a variety of sources into hydrologic modeling and/or decision support systems.

OR

EDUCATION: Ph.D. or equivalent doctoral degree in hydrology or a closely related field or 3 full years of progressively higher level graduate education leading to such a degree.
OR

COMBINATION: A combination of education and experience as described above.

Note: Only graduate education in excess of two years is creditable.

GS-12:

SPECIALIZED EXPERIENCE: In addition to meeting the Basic Requirements above, applicants must also possess one full year (52 weeks) of specialized experience equivalent to the GS-11 in the Federal service. Specialized experience MUST include all of the following:
- Developing hydrologic modeling and analysis procedures for use in river forecasting operations;
- Performing hydrologic/hydrometerologic forecasting services for a variety of hydrologic situations;
- Synthesizing data from a variety of sources into hydrologic modeling and/or decision support systems; and
- Writing technical reports for delivery to external stakeholders; and collaborating with external groups to complete hydrologic studies or issue warnings.

College Transcript: If you are qualifying based on education, submit a copy of your college transcript that lists college courses detailing each course by the number and department (i.e., bio 101, math 210, etc.), course title, number of credit hours and grade earned. You must submit evidence that any education completed in a foreign institution is equivalent to U.S. education standards with your resume. You may submit an unofficial copy of the transcript at the initial phase of the application process. If course content cannot be easily identified from the title of the course as listed on your transcript, you must submit an official course description from the college/university that reflects the content at the time the course was taken.

Note: Your college transcript is used to verify successful completion of degree, or college course work. An official college transcript will be required before you can report to duty.

Applicants must meet ALL application requirements, to include a complete online resume, by 11:59 p.m. EASTERN TIME (ET) on the closing date of this announcement.

Preferred Skills
- Security Clearance
- Public Trust - Background Investigation

How to Apply
https://www.usajobs.gov/GetJob/ViewDetails/472437500