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Research Hydrologist 12

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I. INTRODUCTION

This position is located in

Incumbent is the sole researcher or scientific coordinator of a team of scientists performing research into important problems of hydrological situations.

II. MAJOR DUTIES AND RESPONSIBILITIES

Incumbent is responsible for performing applied research, developing operational techniques and procedures incorporating the results of this research, and assisting with the operational implementation of these techniques and procedures. This research involves one or often several phases of larger projects requiring application of standard and nonstandard methods and analysis techniques focused on providing: (1) improved software based on hydrologic science and cutting-edge computer technology to assist in the development of operational hydrologic forecasts; (2) training in the software application; and (3) software support. The research involved could include: 1) enhancing existing hydrologic rainfall runoff models or the Extended Streamflow Prediction system; 2) computation of snowmelt; 3) development of distributed hydrologic models; 4) enhancement or implementation of river mechanics models; or 5) implementation of precipitation processing software associated with the WSR-88D weather surveillance radars, etc. The hydrometeorological research situation is of greater than average difficulty and complexity. Investigations often require unconventional or novel approaches for resolution.

Completed research will result in a series of publishable contributions to hydrometeorological knowledge to answer important questions and/or open new avenues of further study. The research will make important contributions to hydrometeorological science, which may result in changes to existing products, processes, techniques or practices.

III. FACTOR LEVELS

Factor 1 - Research Situation/assignment Degree B, 4 pts.

The hydrological research situation is of greater than average difficulty and complexity. The investigation is approached by a series of complete but related studies. Investigations at times require unconventional or novel approaches for resolution.

Completed research will result in a series of publishable contributions to meteorological knowledge to answer important questions and/or open new avenues of further study. The research will make important contributions to hydrological science, which may result in changes to existing products, processes, techniques or practices.

Factor 2 - Supervision Received Degree C, 6 pts.

Incumbent is assigned a broad problem area with considerable freedom to identify, define and select specific problems for study. With little or no supervisory assistance, incumbent independently formulates hypotheses and develops and carries out plan of attack. Supervisor is kept informed through informal discussions of general

plans and progress of work. Proposals to alter the level or direction of investigation are subject to supervisory review and approval. Completed work is reviewed for overall results.

Factor 3 - Guidelines and Originality Degree C, 6 pts.

Significant gaps or contradictory findings exist in relevant literature in the field of hydrology. Incumbent applies a high degree of originality in defining problems for study. Incumbent applies new techniques and original methods of attack to solution of important problems in the science. These problems present novel or unprecedented aspects.

Factor 4 - Qualifications and Scientific Contributions Degree B, 8 pts.

Incumbent is author of one or more papers of considerable interest to other researchers in the assigned research situation.

Accomplishments demonstrate the ability to independently conduct research or contribute significantly to a research team. Incumbent is consulted by others on results of research.

TOTAL POINTS: 4+6+6+8 = 24

This position is exempt from coverage under the Fair Labor Standards Act.

IV. UNIQUE POSITION REQUIREMENTS

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