UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Office of Human Capital Services
1305 East West Highway
Silver Spring, MD 20910

January 31, 2024

MEMORANDUM FOR: Alphonso Dawson
HR Business Partner
Office of Human Capital Services

THROUGH: Terry Hartz
HR Business Advisor
Office of Human Capital Services

FROM: Fanglin Yang
Chief of Physics and Dynamics Division
Environmental Modeling Center
National Centers for Environmental Prediction
NOAA National Weather Service

REFERENCE: (a) 5 CFR, Part 630, Section 630.205
(b) DOC Bulletin FY11-147 dated August 1, 2011

SUBJECT: Request for Leave Enhancement for Jianping Huang

This memo is to request your favorable consideration of a request for creditable service for 14 Years and 7 months of annual leave accrual under HR Bulletin # 147 for Jianping Huang. Jianping Huang was issued a tentative offer for a federal a position on January 29, 2024. The position is a GS-1301-14 and located in the National Weather Service, National Centers for Environmental Prediction in College Park, Maryland. The position description is attached.

We believe this request should be approved based on the following criteria and as stated in the narrative below:

The skills and experience Jianping Huang possesses are necessary to achieve an important agency mission or performance goal; and

The skills and experience Jianping Huang possesses are essential to the position and acquired through performance in a non-Federal position with duties directly related to the duties of the position to which he is being appointed.

The position is located in National Centers for Environmental Prediction in College Park, National Weather Service of the National Oceanic and Atmospheric Administration. The position requires experience at GS14 level leading the Air Quality and Atmospheric Composition Team on development and improvement of the national air quality forecast capability (NAQFC), Global Aerosol Prediction System, and Hybrid Single Particle Lagrangian Integrated Trajectory Model (HYSPLIT), and transition of those prediction systems to operation, as well as operational forecast product support.

Since 7/1/2009, Jianping Huang has been working at the NOAA/NWS/NCEP/Environmental Modeling Center (EMC) as a non-Federal scientist to support development, upgrade and operational support of the NAQFC and HYSPLIT. He has serving as the code manager for more than 10 years in

support of the air quality model (AQM) system upgrade, maintenance, and operational support. He has played a critical role in development of the Unified Forecast System (UFS)-based next generation air quality online prediction system to improve the representation of wildfires and their impact on air quality, weather, and climate predictions. As a project lead, he is leading the AQMv7 implementation. In this capacity, he has developed a comprehensive project plan, QUAD, and presented the milestones and project progress to support the AQMv7 implementation. He also led the AQMv7 official evaluation nationwide. In addition, he acted as a contractor Task Lead for about 9 years to support the federal managers to monitor 6~9 contractors to support regional air quality, global aerosols, HYSPLIT, post-processing and product generation of other weather, wave and ocean operational models at NOAA/NWS/NCEP/EMC.

Based upon Jianping Huang's resume and statement provided in response to the vacancy announcement, I certify Dr. Huang's experience/skills developed during his time as a non-Federal employee with the NWS Environmental Modeling Center are essential to this position and necessary to achieve an important agency mission or performance goal.

Again, I appreciate your consideration. If you have any questions or if l can assist you in any way please do not hesitate to call me at 301-6833722.

YANG.FANGLIN.1393204105 Digitally signed by YANG.FANGLIN.1393204105 Date: 2024.01.31 16:54:34 -05'00'
Supervisor Signature

Approved	Date	Disapproved	Date
HRBP, Office of Human Capital Services		HRBP, Office of Human Capital Services	

Attachments:
1. Service Credit for Non-Federal Experience Worksheet
2. Candidate Request
3. Applicant's Resume
4. Position description

February 2, 2024

MEMORANDUM FOR: Terry Hartz

FROM: Jianping Huang

SUBJECT: Request for Leave Enhancement

I was issued a tentative offer for a federal a position on January 29, 2024. The position is a GS-1301-14 and is located in the National Weather Service, National Centers for Environmental Prediction in College Park, Maryland. This memo is to support my request for your favorable consideration of my 14 Years and 7 months creditable service for annual leave accrual. My request is based on the following criteria as stated in the narrative below:

My skills and experience are necessary to achieve an important agency mission for providing air quality, fire, global aerosol, sub-seasonal to seasonal forecasts and warnings for the United States, its territories, adjacent countries, for the protection of life and property and the enhancement of the national economy.

My skills and experience possesses are essential to the position and acquired through performance in a non-Federal position with duties directly related to the duties of the position to which he is being appointed.

The position is located in National Centers for Environmental Prediction in College Park, National Weather Service of the National Oceanic and Atmospheric Administration. I have directly related specialized experience and performed work that aligns with the duties as described in the Position Description:

- *Develop, transition, and maintain numerical model physics parameterizations and associated computer-based technologies to improve National Centers for Environmental Prediction (NCEP) Environmental Modeling Center (EMC) environmental forecasts and services.*
- *Lead staff in multiple locations to prepare, coordinate with external partners, and present numerical model research and development activities.*
- *Oversee the consistency and transition of techniques and research to operations (R2O) of one or more numerical model physics parameterizations for numerical forecast guidance products.*

The position requires the following experience at GS14 level

- *Participating in the development of one or more atmospheric chemistry models or physics Parameterizations such as atmospheric composition, aerosol-cloud- radiation interaction, sub-grid scale gravity waves, planetary boundary layer turbulence, unified cloud parameterization, radiation, cloud microphysics, and stochastic physics, for earth system modeling applications, including global and regional models for air quality, weather and sub-seasonal to seasonal predictions;*
- *Improving chemistry or physics for operational modeling systems, such as maintaining and upgrading physics representation and its interaction with other components of earth system models;*
- *Collaborating with the scientific community to accelerate research to operational transition of advances in earth system modeling;*
- *Participating in national and international research programs*.

Since July 1, 2009, I have been working at the NOAA/NWS/NCEP/Environmental Modeling Center (EMC) as a non-Federal scientist, primarily serving as the code manager of the air quality model (AQM) prediction system for over a decade. In this role, I have been playing a critical role in the upgrade, maintenance, and operational support of the AQM system, providing accurate air quality forecast guidance to safeguard human life and property across the United States.

I have made a significant contribution to the development of the Unified Forecast System (UFS)-based next-generation air quality online prediction system, aimed at enhancing the representation of wildfires and their impacts on air quality, weather, and climate predictions.

Additionally, as the project lead for the AQMv7 implementation, I have developed a comprehensive project plan, QUAD, and presented the milestone and project press to the important implementation meetings such as Kick off, EE2 and the NCEP director Briefing. I also successfully led the nationwide official evaluation to support the AQMv7 implementation.

Furthermore, I served as a contractor Task Lead for nearly a decade, supporting federal managers in monitoring 6-9 contractors across various tasks, including regional air quality assessments, global aerosol studies, HYSPLIT analysis, and processing and product generation for various weather, wave, and ocean operational models at NOAA/NWS/NCEP/EMC.

I believe that my professional experiences closely align with the responsibilities of the federal position I am tentatively offered. Thus, I respectfully request an extension of my service-credit date to July 1, 2009, my work starting time at EMC.

I am grateful for your consideration. Please feel free to reach out to me via email should you have any inquiries.

Best regards,

Jianping Huang