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To whom it may concern:

NIST-Gaithersburg has an immediate opening for a postdoctoral researcher to work on an exciting new project in quantum biometrology: enhanced sensing of bio-molecules using nonclassical light sources. The ultimate goal is to enable sensing (and/or imaging) of target molecules in biological systems with (a) lower incident light intensities, (b) higher specificity, and/or (c) at much lower concentrations than currently available. Ultimately this technology could greatly enhance a broad range of activities from synthetic biology and engineering to regenerative medicine. This project is within a collaboration between NIST-Gaithersburg (PI's: Charles Camp, Thomas Gerrits), NIST-Boulder (Martin Stevens), and JILA at the University of Colorado at Boulder (Ralph Jimenez). The position will be based in Gaithersburg, Maryland within the Biomaterials Group. Responsibilities will include development of appropriate light sources and construction and design of sensor platform (e.g., hollow-core fiber, cavity ring-down spectrometer). A qualified candidate should have expertise in experimental quantum optics and/or ultrafast optics. Expertise with measurement automation (especially LabView) and data science (MATLAB or Python) is also strongly desired. The position is open for immediate fulfillment, but starting date is negotiable. US citizenship preferred.

To learn more about this position, please contact Charles Camp at charles.camp@nist.gov

Sincerely,

A handwritten signature in black ink, appearing to read "Charles H. Camp Jr.", is written over a horizontal line.

Charles H. Camp Jr., Ph.D.