



**University of New Hampshire
Department of Physics
Experimental Postdoctoral Position**

The Nuclear and Particle Physics Group at the University of New Hampshire has an immediate opening for a post-doctoral research associate, who will be expected to take a leading role in the Heavy Photon Search (HPS) experiment in Hall-B at Jefferson Lab.

The HPS is a current experiment designed to look for a new, heavy, gauge boson (the heavy photon, or dark photon) in the mass range 20-200 MeV that couples to electrons through kinetic mixing with couplings $\varepsilon^2 = \alpha'/\alpha$ in the range 10^{-5} to 10^{-10} . The HPS will search for the e^+e^- decay of the heavy photon, possibly with a displaced vertex, using a compact forward spectrometer. The collaboration is currently analyzing the results of two long physics runs and is expected to take more data in 2026 or 2027.

The successful candidate will have a PhD in nuclear or particle physics and will be expected to strongly contribute to the ongoing program, but is also encouraged to propose and initiate new experiments. Strong skills in data analysis and software development will be a plus. Depending on preference, the position can be located at UNH or at JLab.

The group's efforts are supported by the US Department of Energy. The position is available immediately and will remain open until filled.

Applicants should send a resume (CV) and a summary of relevant experience/research plan, as well as arrange for 3 letters of recommendation to be sent, to maurik.holtrop@unh.edu. Inquiries may be sent to the same address.

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