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Executive Summary

This project entails the building of a scale model of the proposed CLAS12 detector and the beamline and instrumentation decks of Hall B. The work would be done by a student intern at JLAB and supervised by Hall B designers and technicians. This model will greatly facilitate our fabrication and installation procedures, but we propose it as a JSA initiative because of its inherent ability to interest students in our research activities.

The Hall B 12GeV upgrade requires extensive reconfiguration of the experimental hall and its equipment. A 1/24 scale model with all of the detectors, magnets and supporting infrastructure will help to visualize the compact, complex geometry. This is particularly important for planning the staging and installation sequences. Furthermore, the model will be a valuable tool for explaining the changes being made for CLAS12 to our user community and to the public. JLAB will provide the necessary CAD drawings and virtual models.