

Experimental particle-physics research - graduate and excellent 3rd-year students

The recent [discovery](#) of the Higgs boson verified central aspects of our current theory of fundamental physics, while highlighting important problems for further study. For example, the mass of the Higgs implies the existence of new interactions or physical principles that we should be able to discover at the [LHC](#), the world's highest-energy particle accelerator. Hints for an interesting direction of research come from a recent [measurement](#) by the BABAR experiment. My research group uses the [ATLAS](#) detector at the LHC and the [BABAR](#) detector to search for new particles and phenomena to improve our basic understanding of the universe. Graduate students and excellent third-year students who are interested in fundamental physics and are excited by working with elementary particles are invited to join us in this research.

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