

# Graduate Studies and Research in Experimental Nuclear/Particle Physics



## Are you interested in starting your research career at the University of Regina?

Physics is a priority area at our university: we are part of one of its 5 research clusters. We are a small department that offers a flexible academic schedule to accommodate experiments. Accepted students are fully funded and are the beneficiaries of a quality educational experience and training in cutting-edge research. Professional development training and mentorship includes teamwork, critical thinking, leadership skills and outreach activities.

GlueX/JEF upgrade



Regina group members

## Search for Exotic Hybrid Mesons and Dark Matter in the GlueX/JEF Experiments

One of the top 10 unsolved problems in physics is the nature of the strong force where quark confinement dominates. The GlueX experiment at Hall D/Jefferson Lab (USA) is taking crucial data to improve our understanding of how quark and gluon interactions give rise to the observed properties of mesons and nucleons. GlueX/JEF is undergoing a major upgrade that aims to access physics beyond the Standard Model. Students travel to Jefferson Lab to maximize interactions with collaborators and expedite their degrees.

Contact: Dr. Zisis Papandreou ([zisis@uregina.ca](mailto:zisis@uregina.ca))



Visit: <https://tinyurl.com/quark-confinement>

