

A full-scale facility, based on the prototype findings, is in the early design stage and will be submitted to the National Science Foundation toward the end of 2007. If successful, the university expects to be awarded more than \$400 million in federal funding for construction and equipment to build the ERL, along with annual operating support of \$35-\$40 million. It would take about five years to build the facility once funding is approved.

The ERL would replace the existing Cornell High Energy Synchrotron Source (CHESS), which currently provides synchrotron radiation facilities for research in physics, chemistry, biology, and environmental and materials sciences. CHESS has been in use since 1979 and has been the site for many of the seminal developments in the synchrotron radiation field.

If Cornell wins the competition for the ERL, it will bring in more than \$1 billion in federal funds to New York State in the form of construction, equipment, operational support, and associated research projects.

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