Jessica Feng
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Major: Microbiology

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Program:
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Research Area: Computational Sciences and Engineering

The Spallation Neutron Source (SNS) was built to study the arrangement, motion and interaction of atoms in materials. With applications ranging from food to cars and planes, neutron research has the potential to improve the range and quality of these products. To effectively analyze and interpret the vast amounts of data collected from the SNS, software must be developed, documented and tested. The student will log various actions on Checkin Utility and Translation Monitoring to help write user documentations. The student will also work with the incorporation of the Integrated Proposal Tracking System (IPTS). By reading updated proposal team information from Oracle queue and updating the Lightweight Directory Access Protocol database, connecting to the IPTS database for user information to provide controlled access to Information Catalogue (ICAT) database and syncing existing proposal team information from ICAT to IPTS using Structured Query Language to import data, the student will be assisting in checking and improving software to be used by SNS internal and external users.

Research Mentor:
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