Statement of Work
LSST Identity and Access Management

The NCSA cybersecurity directorate (CSD) will collaborate with the Large Synoptic Survey Telescope (LSST) project to develop an Identity and Access Management (IAM) program. This LSST IAM project will be led by Jim Basney (NCSA CSD Senior Research Scientist) in collaboration with Alex Withers (LSST Information Security Officer) and Don Petravick (LSST NCSA Local Principal Investigator). The work will be coordinated with the LSST Data Management Project Engineer, KT Lim (SLAC), existing holders of authentication and authorization infrastructures, and other parties as directed by the LSST ISO.

Project Deliverables:
- *LSST IAM Design Document*: The LSST IAM Design Document will describe LSST's current and expected IAM needs and specify technical recommendations for the LSST IAM system architecture, including interface standards (e.g., LDAP, OAuth) and system components (with functional descriptions and implementation recommendations).
- *LSST IAM Program Plan*: The LSST IAM Program Plan will specify future and ongoing IAM development and operational activities required to meet the LSST project mission.
- *LSST IAM Technical Demonstration*: The LSST IAM Technical Demonstration will provide an initial implementation of the LSST IAM design according to the philosophy of "rough consensus and running code." The project will prioritize technical implementation work based on the immediate needs identified by LSST developers for functional implementations of IAM system interfaces to "fill the gaps" needed for LSST development and integration work to proceed on schedule.

Project Start Date: October 1, 2015

Project Duration: six months

Project Milestones:
- October 2015: Initial draft of LSST IAM Design Document circulated for comment. Plans for IAM Technical Demonstration in place.
- December 2015: Integration point for IAM Technical Demonstration, showing use of IAM mechanisms by LSST systems.
- January 2016: Initial draft of IAM Program Plan circulated for comment.
- March 2016: Deliverables completed. Follow-on project(s) established as needed.

Follow on projects as negotiated by the parties.