

Statement of Work

Description

The Consultant will set up, configure, and maintain a system for interactive computing in a cloud computing environment for participants of the eScience NASA ICESat-2 Hackweek. The computing environment is necessary for collaborative coding and interactive tutorials. The work will be supervised by principal investigator Dr. Scott Henderson at University of Washington eScience Institute.

Work items

1. Design for a scalable and configurable JupyterHub for instruction of NASA ICESat-2 Hackweek 2022. The hub has the following needs:

- Deployed in AWS us-west-2 datacenter
- Support up to 100 simultaneous users
- Minimum of 4 CPU, 16GB RAM, 10GB home directory per user
- Gate usage with GitHub Teams within Organization authentication

<https://github.com/ICESAT-2HackWeek>

- Auto-deploy single docker image

Deliverables and timeline:

1. 'Research Tier Shared Cluster' JupyterHub 2i2c Alpha Service (\$1,500 setup, \$1,500 monthly fee, Cloud costs passed through).
2. Hub will be operational by February 1, 2022
3. 2i2c engineer on-hand for same-day answering questions or troubleshooting during week-long main event Pacific Time 8-4 PT (March 22 - March 25)
4. Hub will remain accessible through June 1, 2022 or when budget runs out, whichever comes first

Cost

Total cost (cloud plus operations) should not exceed ten thousand dollars and zero cents (USD \$10,000) unless amended by written mutual agreement.