

Request for ACCESS Resources for STAMPS 2025 at Marine Biological Laboratory in Woods Hole, MA, USA

Overview

The STAMPS course (Strategies and Techniques for Analyzing Microbial Population Structures) has been a yearly event at the Marine Biological Laboratory (MBL) in Woods Hole, MA, USA for over a decade, helping nearly 1,000 learners establish a foundation in bioinformatics over the years. Since 2019 we have been fortunate enough to have our computational infrastructure provided through XSEDE, then ACCESS, and Jetstream (1 and 2), and we hope to continue that this year. The course takes place 14-July to 24-July and will involve a lot of command-line, R, amplicon analysis, metagenomics, statistical training, and other concepts and computational activities (last year's schedule can be seen here:

<https://github.com/mblstamps/stamps2024/wiki#schedule>).

How we plan to use ACCESS resources

We will be running an about 11-day workshop (14-July to 24-July). I have experience in the past doing this through Indiana Jetstream2, managing through Exosphere, so that would be great if possible. We are requesting the ability to run 60 (accounting for faculty and participants) m3.large instances concurrently for about 15 days straight. This is longer than we plan on them being active, but we would like to leave room for building the image and testing/setting things up ahead of time, and any unexpected situations. Using the Jetstream2 estimator (<https://docs.jetstream-cloud.org/alloc/estimator/>), with 60 m3.large instances for 15 days, this comes out to a request for 345,600 SUs/ACCESS Credits. Since we would need all these credits to be available at once, we are submitting a request for a Discover ACCESS in order to cover it.

Thank you for your consideration!

-Mike