# SERA 2.0 User Guide

1. Install Julia and add to path. The guidelines for installing Julia for different operating systems can be found [here](https://julialang.org/downloads/platform/).
2. Download/clone SERA from the ‘dev’ branch in the Github repository located [here](https://github.nrel.gov/SERA/SERA.jl).
3. To run SERA 2.0, the required packages need to be installed in the folder where SERA 2.0 is downloaded. Run the file ‘SERA.jl/setup/setup\_environment.jl’ in Julia which will create a new environment and add the required packages for SERA 2.0 in that environment. This step only needs to be done the first time SERA 2.0 is downloaded/cloned in your machine.
4. Copy the file ‘SERA.jl/setup/run\_case.jl’ in the test case folder.
5. SERA 2.0 needs an Xpress solver license, which is available on HPC.
6. Running the model:
   1. If the model is run on HPC, create a batch script to run SERA 2.0 in the test case folder. A sample batch script is shown below, and then submit the job.

Graphical user interface, text, application

Description automatically generated

* 1. If the model is run on Windows, submit the following command from Command Prompt to run the model

julia ‘location of the run\_case.jl file in test case’ ‘location of the SERA 2.0 repo’