

# Campus Cluster Instructional Queue

## Info for CS 581

You are expected to use the campus cluster instructional queue for all assignments involving computation (i.e., do not use your laptop).

You may, of course, prototype using a laptop or some other machine, but your scripts should run on the cluster and results should be exported from it for further analysis, visualizations, etc.

If you haven't previously used the campus cluster, look up the documentation, and read the information below. And of course, consult the TA (Eleanor Wedell, [ewedell2@illinois.edu](mailto:ewedell2@illinois.edu)), and feel free to consult with other students in the class to get up and running.

Here are some details about the eng-instruction partition:eng-instruction - consisting of:

- i. 5 compute nodes providing 512 CPU cores, 3.5TB RAM, 6 Nvidia A10 GPUs
  - ii. - 3 CPU nodes, 2x AMD EPYC 7713 64-core (384 cores total), 1TB RAM each (3TB RAM total), HDR IB
  - iii. - 2 GPU nodes, 2x Intel Xeon 8358 32-Core (128 cores total), 256GB RAM each (512GB total), 3x A10 GPUs each (6x A10 total) HDR IB
- b. For submitting jobs on the eng-instruction queue/partition, the account CS 581 students need to use is "25sp-cs581a-eng". See the "running jobs" page (below) for more information.
- c. Students can check which account(s) they belong to by running the following script:
- ```
/projects/illinois/eng/shared/shared/examples/my-accounts-instruction
```
- d. There is a sample batch job script at:
- ```
/projects/illinois/eng/shared/shared/examples/sample.sbatch
```

Please refer to the following page on how to get started:

[https://docs.ncsa.illinois.edu/systems/icc/en/latest/getting\\_started.htm](https://docs.ncsa.illinois.edu/systems/icc/en/latest/getting_started.htm)

For comprehensive instructions on submitting jobs:

[https://docs.ncsa.illinois.edu/systems/icc/en/latest/user\\_guide/running\\_jobs.html](https://docs.ncsa.illinois.edu/systems/icc/en/latest/user_guide/running_jobs.html)

If your jobs require the use of GPUs, you can request the available GPU resources by using the feature flags as outlined at:

[https://docs.ncsa.illinois.edu/systems/icc/en/latest/user\\_guide/running\\_jobs.html#specifying-nodes-with-gpus](https://docs.ncsa.illinois.edu/systems/icc/en/latest/user_guide/running_jobs.html#specifying-nodes-with-gpus)

Storage information and locations are explained here:

[https://docs.ncsa.illinois.edu/systems/icc/en/latest/user\\_guide/storage\\_data.html](https://docs.ncsa.illinois.edu/systems/icc/en/latest/user_guide/storage_data.html)

Any technical issues you may experience with the cluster should be addressed to the cluster administrators at: [help@campuscluster.illinois.edu](mailto:help@campuscluster.illinois.edu)