

#####How to Connect to Lawrencium and Submit a Job#####

##Open YourTerminal

```
$ssh bmohammed@lrc-login.lbl.gov
$password:PIN+OTP
```

#####Copy the destination path from Lawrencium#####

#####Go back to you local PC to transfer files to Lawrencium using scp#####

#####Run the following on your local PC#####

```
$scp simpleLSTM_predict1step_5min.py bmohammed@lrc-
login.lbl.gov:/global/home/users/bmohammed/
```

####Return back to Lawrencium#####

####To Check the Modules available #####

```
$module avail
$module list
```

Create a test.sh file using vim

#####

```
$vi test.sh
```

Copy and paste the following in the test.sh file

#####

#####START COPYING FROM HERE#####

```
#!/bin/bash
```

```
## Job name:
```

```
#SBATCH --job-name=test
```

```
#
```

```
# Partition:
```

```
#SBATCH --partition=cf1
```

```
#
# Wall clock limit:
#SBATCH --time=0:0:30

### how to see what partition,qos and account you have
access to
### run this command - sacctmgr show association
user=bmohammed
## Account name
#SBATCH --account=pc_daphne

## QOS
#SBATCH --qos=cf_normal

# Command
## Load the module first
## to see what modules are available run - module load
avail
module load python/3.6

## Now run your command, this is your code which you
have copied to your Lawrencium Directory.
python simpleLSTM_predict1step_5min.py

#####END COPYING HERE#####

#####To (save) and quit
:wq or :x

#####Then using the Simple Linux Utility for Resource
Management (SLURM) , Submit the job#####
$batch test.sh

#####Check the Status of the Job in Cue using the job
number#####
$squeue -j 23445921
```

#####Check to view all the current jobs in Cue and which node is Free/Idle#####

```
$sinfo --partition=lr3
$sinfo --partition=lr2
$sinfo --partition=lr4
$sinfo --partition=lr5
$sinfo --partition=lr6
$sinfo --partition=cm1
$sinfo --partition=cf1
```

#####To check the status of the current jobs you are running#####

```
$squeue --user=bmohammed
```

#####Create a srun.sh to execute the Job#####

```
$vi srun.sh
```

#####Copy and paste the following in the srun.sh file specifying all your requirements#####

```
$srun --pty -p lr5 -a pc_daphne -t 00:30:00 -qos
lr_normal bash
```

#####To (save) and quit

```
:wq or :x
```

#####To view the content of the srun.sh file#####

```
$more srun.sh
```

#####Execute the srun.sh file#####

```
$sh srun.sh
```

```
ls -ltr
```

#####Check the view the Jobs you are running.#####

squeue --user=bmohammed

#####Please click on the link below for more
commands#####

[https://sites.google.com/a/lbl.gov/high-performance-computing-services-group/getting-started/
sl6-module-farm-guide](https://sites.google.com/a/lbl.gov/high-performance-computing-services-group/getting-started/sl6-module-farm-guide)

#####For additional SLURM commands click on the
link below#####

[https://sites.google.com/a/lbl.gov/high-performance-computing-services-group/scheduler/slurm-
usage-instructions](https://sites.google.com/a/lbl.gov/high-performance-computing-services-group/scheduler/slurm-usage-instructions)