- Let's write a batch script called MD_ubq.job and put it in the ~/ ubq-md/ directory. You can
 - use a terminal text editor like `vi'
 - create it on your local computer and transfer it to bridges

```
MD_ub
      MD_ubq.job
#!/bin/bash
#SBATCH -N 1
#SBATCH -p RM-small
#SBATCH -t 00:30:00
#SBATCH --ntasks-per-node 1
# Set up the environment
source ~/.bashrc
module load anaconda3
conda activate openmm
# Run MD
cd ~/ubq-md
python MD_ubq.py
```

- Once you have created the job file, you can submit it to the queue using `sbatch MD_ubq.job'
- After submitting the job you can log out or be disconnected from the server and it will still run
- You can use `squeue -u
 user_name' to check the status
 of your job(s)
- The calculation will complete the same way as an interactive job
- The output that would be sent to the terminal in an interactive job is sent to a file

```
br006:[~/ubq-md]: ls -ltr
total 312
 -rw-r--r-- 1 dminh mc4s8bp 50895 Jan 31 18:44 1ubq.pdb
 -rw-r--r-- 1 dminh mc4s8bp 1678 Jan 31 18:50 MD_ubq.py
-rw-r--r-- 1 dminh mc4s8bp
                              221 Feb 5 17:17 MD_ubq.job
-rw-r--r-- 1 dminh mc4s8bp 99863 Feb 5 17:23 ubq_mod.pdb
 -rw-r--r-- 1 dminh mc4s8bp 148796 Feb 5 17:23 trajectory.dcd
 -rw-r--r-- 1 dminh mc4s8bp 727 Feb 5 17:23 slurm-7589729.out
br006: [~/ubq-md]: more slurm-7589729.out
Minimizing...
Running Production...
#"Progress (%)" "Step" "Potential Energy (kJ/mole)"
                                                        "Temperature (K)"
"Speed (ns/day)"
                        "Time Remaining"
10.0%
        100
                -12891.608289052907
                                        182.75168707244657
                -12679.091283728229
                                                                8.22
20.0%
        200
                                        208.12074466763545
                                                                        0:16
30.0%
                -12544.950513910171
                                        222.9911557564418
                                                                8.27
                                                                        0:14
        300
40.0%
                -12417.294668972278
                                        241.63949664412493
                                                                8.29
                                                                        0:12
50.0%
                                                                8.31
        500
                -12182.148295443869
                                        250.84879213741047
                                                                        0:10
60.0%
                                                                8.31
        600
                -12086.427954357983
                                        250.25410151752132
                                                                        0:08
                -12201.427649847661
                                                                8.3
70.0%
        700
                                        275.4539256800823
                                                                        0:06
80.0%
                -12071.165875336525
                                        278.7590849918891
                                                                        0:04
        800
                                        278.2551306095054
90.0%
                -11779.891281989974
                                                                8.28
        900
                                                                        0:02
                -11804.03142004821
                                                                8.27
        1000
                                        289.69894096208446
                                                                        0:00
100.0%
Done!
```