



Sandia  
National  
Laboratories

# Quest Installation Guide

**ATRI BERA**

Postdoctoral Appointee, Org. 8811

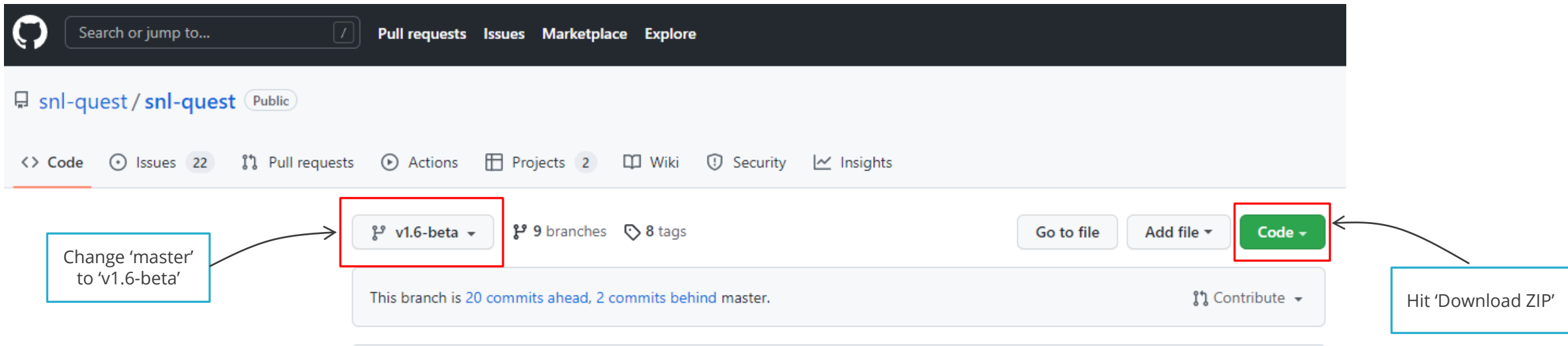
June, 2022



Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.

## 2 Download QuEST

- Go to <https://github.com/snl-quest/snl-quest>

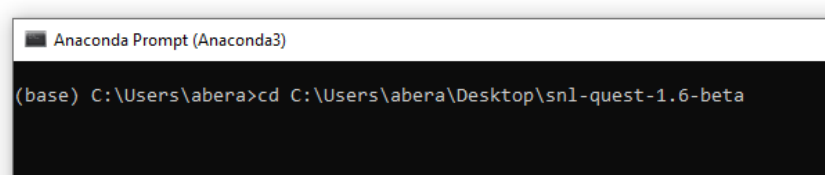


The screenshot shows the GitHub repository page for `snl-quest/snl-quest`. The repository is public. The main navigation bar includes links for Code, Issues (22), Pull requests, Actions, Projects (2), Wiki, Security, and Insights. The current branch is `v1.6-beta`, with 9 branches and 8 tags. A status bar indicates the branch is 20 commits ahead and 2 commits behind master. The `Code` button is highlighted with a red box, and an arrow points to it from a box labeled "Hit 'Download ZIP'". Another arrow points from a box labeled "Change 'master' to 'v1.6-beta'" to the `v1.6-beta` branch selector, which is also highlighted with a red box.

- Extract and save to your preferred directory

# Installation with Anaconda

- Open Anaconda prompt and navigate to the root directory of QuEST



```
Anaconda Prompt (Anaconda3)  
(base) C:\Users\abera>cd C:\Users\abera\Desktop\snl-quest-1.6-beta
```

- Create a new conda environment: `conda create --name quest python=3.9`
- Activate environment: `conda activate quest`
- Install Kivy: `pip install kivy`
- Run the setup file: `python setup.py develop`

## Installation without Anaconda

- Make sure that you have Python installed. You can download the latest version of Python from here: <https://www.python.org/downloads>
- Open command prompt and navigate to the root directory of QuESt
- Install Kivy: `pip install kivy`
- Run the setup file `python setup.py develop`

## Installing GLPK (solver) for Pyomo

- At least one solver compatible with Pyomo required to solve optimization problems
- Download and extract GLPK from here: <http://winglpk.sourceforge.net>
- The `glpk_*.dll` and `glpsol.exe` files are in the “w32” and “w64” subdirectories for 32-Bit and 64-Bit Windows, respectively. Select the pair for the appropriate version of Windows that you are using.
- Place those files to the “C:\windows\system32” directory in order to have them in your system path.
- Alternatively, if you are using Anaconda, execute the following using Anaconda prompt:  

```
conda install -c conda-forge glpk
```

**Thanks!**

## 7 Troubleshooting

- If you get the following error:

```
[SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed: certificate has expired (_ssl.c:1131)
```

- Add the following lines to your setup file:

```
import ssl

ssl._create_default_https_context = ssl._create_unverified_context)
```