

Get Longleaf access (UNC research computing)

The Longleaf cluster is a Linux-based computing system available to researchers at UNC free of charge. In this course we will use Longleaf to run Python code in Jupyter notebooks.

Glossary:

Python: a popular computer language for science, data science, and general use.

Jupyter notebook: an interactive environment that can display notes (markdown), run python code, and display the output of code.

Longleaf: UNC research computing compute cluster. (aka: a super computer accessible to UNC researchers)

Longleaf On Demand: a user-friendly web-portal that provides a graphical interface for apps including Jupyter.

Request a Longleaf account

Request an account by following these steps.

1. Go to help.unc.edu and log in with your onyen.
2. Search for **Compute Cluster Access** in the catalog section of help.unc.edu.
3. Click on **Computer Cluster Access**.
4. Click "Request Access" to complete the service request form and submit.

The screenshot displays the 'Compute Cluster Access' service request form on the UNC Longleaf On Demand portal. The header includes the UNC logo, a search bar, and the user's name 'Seth Veenbaas'. The breadcrumb trail shows the path: Service Catalog / Servers & Storage / Compute Cluster Access / Compute Cluster Access. The form fields are as follows:

- Title:** A short description to explain the nature of a ticket. The input field contains 'Compute Cluster Access'.
- Customer Information:**
 - Requested on behalf of:** Radio buttons for 'Myself' (selected) and 'Someone Else'.
 - Requested for:** A dropdown menu with 'Seth Veenbaas' selected. A note states: 'This is an individual that is listed as the person asking for service detailed within the ticket. If used as a filter in a report, the filter allows for a lookup search.'
 - Acct/Dept:** A dropdown menu with 'Chemistry - 318300' selected. A note states: 'The department under which the Requested For person falls.'
- Preferred contact method:** Radio buttons for 'Phone', 'Email' (selected), 'MS Teams', and 'Other'.
- Preferred contact details:** An empty text input field.

sethvi@live.unc.edu

Additional phone number

Phone number where you can be reached while running jobs.

7143880866

Location

The physical location (such as a building) that can be selected to indicate where the ticket has occurred. The list of locations is retrieved from the Assets/CIs application.

Caudill Labs

Location Room

The room associated with the specific ticket location. The room list is managed on a per location basis within the Assets/CIs application.

Facilities Lab (NMR) 50

Ticket Details

Your preferred shell

-bash

Faculty sponsor name

It is to your benefit to provide a faculty sponsor if you have one (e.g., PI of the lab in which you are working). Without a faculty sponsor, your compute jobs may experience degraded priority within the queue.

Marc ter Horst

Faculty sponsor onyen

terhorst

Is this account required for coursework? If so, indicate course number

CHEM 761

Select cluster

-Longleaf Cluster

Additional Information

A description of the work you will do:

Format - Font - Size - A- B I U S x₂ x² I_x

Run Jupyter notebooks for an intro to Python for scientists course.

body

Submit

You will be notified by email when your account is ready.

To

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