

URCF Picotte high performance computing cluster

Thank you for using Drexel's URCF Picotte high performance computing (HPC) cluster. We hope this facility will help you achieve your research goals.

Policies

Definitive policies are posted on the main Office of Research - URCF website:

<https://drexel.edu/core-facilities/facilities/research-computing/policies/>

User accounts

Picotte user accounts are managed solely by URCF staff and are not associated with your normal Drexel account. Each member of a research group must have their own account: accounts are not to be shared. (Sharing of accounts may trigger penalties.) The PI has final approval on accounts for their group members. Collaborators external to Drexel may also be granted accounts.

Group members should request URCF accounts using this web form:

<https://drexel.edu/core-facilities/facilities/research-computing/about/contact-us/get-account/>

If any user account should be terminated, please contact urcf-support@drexel.edu

User account policies are laid out here: <https://drexel.edu/core-facilities/facilities/research-computing/policies/picotte-user-accounts/>

Charge Rates

The definitive rate schedule is posted at

<https://drexel.edu/core-facilities/facilities/research-computing/policies/rates/>

Bills will be emailed on the first of every month for usage in the previous month.

Rates are computed per Service Unit (SU). Rate for both compute and storage: **\$0.0123 per SU**

Compute

Resource type	Slurm partition	SU per unit resource
Standard compute	def	1 per core-hour
Big memory	bigmem	68 per RAM TiB-hour
GPU	gpu	43 per GPU device-hour

While logged in to `picotte001`, the `billing_report` command can show SUs consumed and associated charge. Do "`billing_report --help`" for online documentation.

Storage

Rate: 1081 SU per TiB-month

This is equivalent to \$13.30 per TiB-month, or about \$3.32 per TiB-week.

Usage in home directories is free of charge.

Proteus

Proteus was the original HPC cluster at URCF. It has been decommissioned.

Facility Description for Proposals

Boilerplate text for the URCF Picotte facility description can be found here:

https://proteusmaster.urcf.drexel.edu/urcfwiki/index.php/Facility_Description_for_Proposals

Acknowledgement of URCF in Publications

We would appreciate an acknowledgement of the use of URCF Proteus in your publications. The following line should appear in your publication:

Work reported here was run on hardware supported by Drexel's University Research Computing Facility.

Please also forward to urcf-support@drexel.edu citations for any work done utilizing Proteus to be published on the URCF website: <https://drexel.edu/core-facilities/facilities/research-computing/research/publications/>

This may also include dissertations.

This boilerplate and email link are also here:

https://proteusmaster.urcf.drexel.edu/urcfwiki/index.php/Acknowledging_URCF_in_Publications

Documentation and Support

There is extensive documentation in the online wiki: <https://proteusmaster.urcf.drexel.edu/urcfwiki/>

All requests for support should be emailed to: urcf-support@drexel.edu This generates a ticket in our issue tracking system and maintains a record of all correspondence related to the issue.

Software Installation

Research groups are expected to maintain the specialized research software they require, and to ensure correctness of operation. While URCF staff may assist in installing software, URCF staff's first priority is issues that affect the entire operation of Proteus and the URCF data center. URCF staff may also lack the specialized knowledge to evaluate the correctness of research software.

There are many (~200) software packages already installed on Proteus, so the software required for your work may already be available. Please see the documentation wiki.

Use for Coursework

URCF Proteus may be used in coursework. Notice should be given to URCF staff at least 3 weeks before the end of the term prior to the one when the course is to be taught. URCF Governing Board approval is required for coursework to be performed on URCF Proteus. Restrictions on coursework usage may be imposed to reduce the impact on research workloads.

Policies for coursework accounts are laid out here: <https://drexel.edu/core-facilities/facilities/research-computing/policies/fair-share/#:~:text=COURSEWORK%20TERMS%20OF%20USE>