Upcoming Training

Our fall training kicks off next week. Check out the ones happening over the next few weeks below, but for a full listing of upcoming sessions, see our website. All ACENET sessions are online through the fall.

Basics of Computers
16 September, 1100-1300hrs Atlantic / 1130-1330hrs NL
Most of us have experience using a computer, whether for school, work, or entertainment, but how many of us have actually had an expert teach us how to use it? This talk won't teach you how to troubleshoot everything, but will give you insight to how media, programs and data are encoded and used by computers, so you can make more sense of why computers behave the ways they do, and solve some of your problems with greater efficiency and less frustration. We will provide an approachable overview of how a computer works, by both looking at their history and breaking one down to explain individual components, before highlighting some of the trade-offs to consider when buying a computer. We will provide practical, simple, and actionable advice on digital security and show you a few "pro tips" on how to make the most of your workstation, phone, or whatever device you happen to use. Whether you have a lot or a little experience using your digital technology, if you want to learn how to use your devices more effectively, this workshop is for you! DETAILS & REGISTER

Introduction to High Performance Computing (HPC) with ACENET & Compute Canada
20 September, 1000-1130hrs Atlantic / 1030-1200hrs NL

This core session is designed to help new users get up and running. Researchers across many disciplines use HPC to tackle analyses that would be either inefficient or impossible on a desktop. This session offers: a basic description of the infrastructure and support accessible through ACENET and the Digital Research Alliance of Canada (Alliance), with entry-level advice about how to begin; an overview of the software packages available for applications, data analysis, and software development, and how to request specific software relevant to your work; and insight into the potential of parallel computing to accelerate your analysis. DETAILS & REGISTER

Introduction to Linux
21 September, 1000-1130hrs Atlantic / 1030-1200hrs NL

This core session is designed to help those with no prior experience working with a terminal interface. To access and use the ACENET and Alliance clusters from your desktop, you will use a text-based "command line" interface. It's the tool you need to get your data on the clusters, run your programs, and get your data back. In this session, learn how to get started with Linux, how to create and navigate directories for your data, load files, manage your storage, run programs on the computing clusters, and set file permissions. DETAILS & REGISTER

Introduction to Shell Scripting
22 September, 1000-1130hrs Atlantic / 1030-1200hrs NL

This core session is designed for both new and experienced users. You'll learn how to use the command line to carry out repetitive tasks, extract information from files quickly, combine commands in powerful ways, and capture a workflow so you can re-use it easily. Save time, reduce errors, and use Linux more effectively. Prerequisite: ACENET Basic Series Introduction to Linux, or previous experience with Linux. DETAILS & REGISTER

Job Scheduling with Slurm
23 September, 1000-1130hrs Atlantic / 1030-1200hrs NL

This workshop is designed for new HPC users, or for experienced users either transitioning to Slurm or seeking to improve efficiency with the scheduler. The Alliance's national systems use a job scheduler called "Slurm". In this session you will learn how Slurm works and how it allocates jobs, helping you to: minimize wait time by framing reasonable requests; ask for only the resources you need, to improve efficiency; increase throughput; run more jobs simultaneously; and troubleshoot and address crashes. Prerequisites: Completion of Introduction to Linux and Introduction to Shell Scripting, or prior experience with both. DETAILS & REGISTER

Introductory Programming: Unix Shell, Version Control and Python
27, 29 September, 4, 6 October, 1200-1530hrs Atlantic / 1230-1600hrs NL

This is a beginner level hands-on series based on Software Carpentry materials. It covers the fundamentals of Python including data types, conditional statements, loops and functions, as well as program design, version control, data management, and task automation. Participants will be encouraged to help one another and to apply what they have learned to their own research problems. The goal is to teach the practical knowledge needed to start programming, debugging and using Python

in everyday tasks. Prerequisites: none. DETAILS & REGISTER

Introductory Programming with R
11, 13 October, 1200-1600hrs Atlantic / 1230-1630hrs NL
This is a beginner level hands-on series based on Software Carpentry materials. It covers the fundamentals of R, including data types, functions, importing, manipulating and analyzing data and data visualization, as well as program design, data management, and task automation. Participants will be encouraged to help one another and to apply what they have learned to their own research problems. The goal is to teach the practical knowledge needed to start programming, debugging and using R in everyday tasks. Prerequisites: none. DETAILS & REGISTER

Cloud from A to Z
18, 20, 25, 27 October, 1300-1600hrs Atlantic / 1330-1630hrs NL
This is an intermediate level series. Cloud computing provides great flexibility, allowing complete control of the computing environment. In addition, the environment can be copied, backed up, created and recreated in an automated way. In these lessons, we will start you on the path towards making use of the great flexibility and power of cloud computing. We will be using the popular static website generator Jekyll. This is an in-depth workshop for those with no prior cloud experience, at the end of which you will have a virtual machine and a Jekyll website. Prerequisite: Completion of Software Carpentry's Unix Shell, or similar experience. *This workshop will have two options: An Instructor Led and Self-Study option. We recommend that should you choose the Self-Study option that you have some prior knowledge of the topics to be successful.* DETAILS & REGISTER

From Our Partners

More training sessions can be viewed from our partners at Calcul Québec, Compute Ontario, and for research data management, the Digital Research Alliance of Canada.

Institutional RDM Strategy Panel Discussion Series

The Alliance invites you to a series of panel discussions on institutional research data management (RDM) strategy development. Discussions will focus on the three active stages — initiating, planning and drafting — to help post-secondary institutions and research hospitals that are eligible to administer Tri-Agency funds meet the March 2023 deadline for developing institutional RDM strategies.

Panel 1: Starting to Develop Your Institutional RDM Strategy
23 September, 1300-1400hrs Atlantic / 1330-1430hrs NL
This panel discussion will be led by representatives of institutions that have gone through the initial stage of developing an institutional RDM strategy, which includes forming a working group/committee, reviewing available support material and assessing institutional RDM capacity. DETAILS

Panel 2: Working Through the Planning Stage of Developing an Institutional RDM Strategy
21 October, 1300-1400hrs Atlantic / 1330-1430hrs NL
This panel discussion will be led by representatives of institutions that have gone through the planning stage of developing an institutional RDM strategy, which includes envisioning the future state of RDM and creating a roadmap or action plan. DETAILS

Panel 3: Working Through the Drafting Stage of Developing an Institutional RDM Strategy
4 November, 1300-1400hrs Atlantic / 1330-1430hrs NL
This panel discussion will be led by representatives of institutions that have gone through the execution stage of developing an institutional RDM strategy, which includes creating a draft strategy document and articulating the institutional path forward through a roadmap or action plan. DETAILS

The panelists for each session come from institutions of different sizes and research intensities, as well as geographic and linguistic backgrounds. A moderator will have questions prepared for the panelists, and audience members are encouraged to submit questions in advance or ask questions during the session. Questions may be submitted in advance using this form.

Simultaneous interpretation in English and French will be available during each session. Participants are invited to use the official language of their choice. These sessions will be recorded and posted on the Alliance's YouTube channel for those who are unable to attend live.

ACENET Research Consultants Available

We'd just like to take a moment to remind you that our staff remain available to help you when you have questions, need some guidance, or have a particularly difficult problem you're trying to solve.

We are available to meet you in-person or virtually. Just email your local representative to set up a time, or contact support@ace-net.ca. You can find your local representative here.

ACENET Office Closure

Please note that ACENET offices will be closed on Friday, September 30th in honour of **National Day for Truth and Reconciliation**.

Resource Allocation Competition 2023

The Resource Allocation Competition (RAC) enables faculty members and their research groups to access compute, storage and cloud resources beyond the normal allocations. These competitions are open to researchers from all disciplines based at Canadian academic institutions who are eligible to apply for funding from the federal granting agencies.

RAC 2023 will launch on September 22nd, 2022. To learn more about this year's competitions, please visit the Alliance website or attend one of our online Q&A sessions. Everybody is welcome.

As always, ACENET staff are happy to assist you with questions or your RAC submissions.

4 October, 1300hrs Atlantic / 1330 hrs NL (English)
Register

5 October, 1300hrs Atlantic / 1330 hrs NL (French)
Register

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Alliance de recherche numérique du Canada

ACENET, HH-2036 Henrietta Harvey Bldg, Memorial University, St. John's NL, A1C 5S7

info@ace-net.ca