# JUMP START *for* START-UPS
## *FREE Access to Supercomputing ($5000 value!)*

**ACENET**
*accelerate discovery*

**Do you want to move faster from interesting concept to commercial product?**

**Do you need lots of compute power, storage or memory - either constantly or occasionally?**

**Are you unsure which computing methods will work best for you?**

**Are your models crashing on your desktop?**

Supercomputing offers faster solutions to problems and equips developers to tackle challenges that would be impossible on a traditional desktop. The result - increased competitiveness and a faster progression from idea to launch.

ACENET is an Atlantic Canadian not-for-profit offering access to supercomputing infrastructure and support for large-scale analysis and modelling in areas including machine learning and artificial intelligence, large data processing, atomic and molecular simulations, computational fluid dynamics, data visualization, materials design and medical innovations.

ACENET, initially created to serve academic research needs, has been operating since 2005, and through a partnership with ACOA, serves industry and supports innovation in Atlantic Canada.

## As an ACENET client, you'll gain:

### ACCESS

Use Siku, our state-of-the-art computing system located in Atlantic Canada.

Discover expert help close to home. Our 16-member support team is positioned across the region, giving you ready access to the support you need, and specialists in cloud, big data, CFD, machine learning, molecular dynamics, computational chemistry, cybersecurity and data management.

### REASSURANCE

With our help, choose a computing approach that suits your project and anticipates future needs.

Our technical staff brings extensive, multifaceted experience to help you solve your R&D challenges.

Our in-house cybersecurity team ensures we're following leading practices and protocols to secure your data.

Your data stays in Canada.

### CONTROL

Regular usage reports keep you informed. Caps set by you protect against unintended overages.

Work smart. Get the most of out of our system in the least amount of time. We'll show you how.

We're small and nimble, and can tailor system configurations to your needs.

### FREEDOM

Skip the headaches of purchasing, managing, and maintaining expensive computing architecture.

Save time. Let us install and configure the software to meet your project's needs.

## Meet Siku: Atlantic Canada's Supercomputing System

Siku was funded, in large part, by ACOA to provide industry with local access to state-of-the-art computing infrastructure.

- 2300 cores with Intel Cascade Lake CPUs
- NVIDIA Tesla V100 GPUs to power AI/Machine Learning projects
- A high-throughput low-latency EDR Infiniband interconnect
- Both batch and cloud-computing interfaces to suit the way you work
- A 1.5 PB parallel filesystem with data protected by regular tape back-ups
- JupyterHub, for rapid exploration of your data with R-Studio or Python, and a virtual desktop in your browser

ACENET champions Atlantic Canada's talent for innovation and is eager to support our local entrepreneurs!

## CONTACT US TO DISCUSS YOUR R&D COMPUTING CHALLENGES AND EXPLORE THIS OPPORTUNITY

If you are a registered member of an incubator or accelerator, you are invited to use the following ACENET resources and support for free over a 12-month period:

- 10,000 CPU compute hours or 285 GPU hours

- 20 hours of technical consulting focused on onboarding team members or solving specific R&D challenges

  - (e.g., software installation, code adjustment, debugging and optimization for supercomputing applications, configuration of cloud resources, data management, optimization of compute workload efficiency, and support in using ACENET's state-of-the-art tools)

- 6 months of free access to any of our scheduled training sessions

  - Sessions address a variety of high-performance computing topics, from novice to advanced levels. Custom training, designed for your company, is always available by arrangement, but excluded from this package.

### TOTAL VALUE $5000