NIH STRIDES Initiative

Four Points is pleased to provide the following benefits and offerings under the NIH STRIDES Initiative. These combine the value offered by the NIH STRIDES Initiative Agreements negotiated by NIH and additional value adds provided by the Four Points-AWS team to jumpstart cloud adoption in the biomedical research communities.

- Free AWS Enterprise Support

  AWS Enterprise Support provides you with concierge-like service where the main focus is helping researchers achieve their outcomes and accelerate time to science using cloud. With this, researchers will have access to 24x7 technical support from high-quality engineers, tools and technology to automatically manage their environment, architectural guidance for their applications, use-cases, and a designated Technical Account Manager (TAM) to coordinate access to proactive / preventative programs and AWS subject matter experts. (See the diagram below). NIH currently provides free *AWS Enterprise Support and while this subsidy may change in the future it currently reflects a savings of 15% or more for researchers.*

- Professional Services and Training

  Discounted access to AWS professional services and technical support. Formal classroom and digital training for researchers, data owners and others to help with optimal use of available Genomics, Healthcare and Life Science tools and technologies including Analytics, Application Integration, Big Data, AI and Machine Learning.

- Flat 9% discount on ALL AWS services except AWS Marketplace items

  AWS's Compute, Storage, Networking, Data Analytics and Machine Learning Services (Learning Tools, Analytics and Security, Frameworks, ML and AI Services) are generally __10% - 20%__ *lower in cost with respect to other cloud providers. Researchers can also take advantage of Spot instances that are* __80% more cost effective__ *than on-demand instances. Similarly, Amazon's Storage S3 Intelligent-Tiering class is designed to optimize costs by automatically moving data to the most cost-effective access tier, without performance impact or operational overhead.*

- Extra 5% discount in addition to the standard STRIDES discount for S3 AWS storage services – Standard, Infrequent Access, Intelligent Tiering, and Glacier

- Special pricing for CloudFront

- Data egress discount program

  AWS is committed to making it easier for scientists to use its cloud storage, computing, and database services by waiving data egress fees for qualified NIH STRIDES researchers and academic customers; these are fees associated with "data transfer out from AWS to the Internet." The maximum discount is 15% of total monthly spending on AWS services, which is several times the usage we typically see among our research customers.

- Free access to +12PB of diversified set of biomedical datasets and workload management systems as part of the program

- More than 8PB of AWS Public Datasets associated with NIH STRIDES

  For approved researchers, the AWS Public Dataset Program covers the cost of storage for publicly available high-value cloud-optimized datasets. If we bring your dataset into the AWS Public Dataset Program, we will cover the cost of storage and data transfer for a period of two years, in accordance with the AWS Public Dataset Program Terms and Conditions.
  https://aws.amazon.com/opendata/public-datasets/

- Free Cloud Education for students using AWS Educate

  Access to Content and Tools with $100 AWS Credits for Students. Apply here -
  https://aws.amazon.com/education/awseducate/apply/

- AWS Cloud Credits for Researchers (Use subject: NIH STRIDES)

  Awards credits for AWS services for researchers building NIH STRIDES related cloud-hosted publicly available science-as-a-service applications, software, or tools to facilitate their future research and the research of their community. Please submit your proposals with subject tag "NIH STRIDES" at https://aws.amazon.com/research-credits/

- Support for Sole Source Justification letter by AWS

Additional benefits/offerings provided by AWS:

- Support for Researchers, Principal Investigators and Academic Institutions

  Customized reporting and dashboard with usage of cloud resources and billing. Extensive Health checks focused on optimizing utilization and leveraging cloud instances and savings plans, as well as best practices and help with optimal account setup and provisioning.

- Amazon Research Awards

  The Amazon Research Awards (ARA) program offers awards of up to $80,000 to faculty members at academic institutions worldwide for research.
  Apply at: https://ara.amazon-ml.com/

- AWS Machine Learning Awards

  Funds eligible universities, faculty, PhD students and post-docs under the supervision of faculty, that are advancing the state-of-the-art machine learning (ML) using NIH STRIDES datasets. Apply with sponsor tag "NIH STRIDES" at: https://aws.amazon.com/aws-ml-research-awards/

- Amazon Internship Program

  Amazon offers internships year-round. Projects will depend on a student's area of research and interest in the biomedical field as well as the team to which they are being placed.
  https://www.amazon.jobs/en/teams/internships-for-students

- Application: Amazon Scholar Program

The Amazon Scholars program is designed for academics from universities around the globe who want to apply research methods in practice and help us solve hard technical challenges without leaving their academic institutions. The program provides opportunities for academics to join Amazon in a flexible capacity, in particular part-time arrangements and sabbaticals.

Overall NIH STRIDES combines unmatched value adds and discounting that stacks a basic 9% discount, free Enterprise Support (equal to an estimated additional 15% discount), and a Data Egress Waiver (that can provide up to an additional 24% savings) on top of AWS' industry leading standard pricing.

Please note that certain benefits and offerings under the program are contingent upon your eligibility as well as program or AWS terms and conditions. All information provided is believed to be current and accurate as of the date of publication. However, please work with your Four Points and AWS account representatives to verify the availability of the benefits and offerings as well as the terms and conditions under which they are being provided.

Attached you will find a guide to onboarding with Four Points for NIH STRIDES. After you have had a chance to review, we will be happy to answer any questions you may have.

To onboard with the NIH STRIDES Initiative, we will need to:

1. Establish a customer/supplier relationship between your institution and Four Points.
2. Determine if a BAA is needed or already existing.

Four Points will complete any paperwork needed to become your supplier. Once this relationship is established, Four Points will require a purchase order/funding as researchers/projects join the program. Typically, we provide a quote (including price notes listed above) which would result in a purchase order/funding.

TECHNICAL ACCOUNT MANAGER (TAM) — Designated technical point of contact to all necessary AWS expertise

SMEs — Cloud Support Engineers, Solutions Architects, and product teams are available for guidance

SUPPORT CONCIERGE — Dedicated team of enterprise account specialists to help with billing and account subjects

TRUSTED ADVISOR (TA) — Online resource to help you reduce cost, increase performance, and improve security by optimizing your AWS environment

ABUSE TEAM — Assists you when AWS resources are impacted by things such as Spam, Port scanning, Denial of Service attacks (DDoS), or malware

PERSONAL HEALTH DASHBOARD (PHD) — Delivers alerts and remediation guidance when AWS is experience events that may impact your environment

PEOPLE EXPERTISE

TOOLS AUTOMATION

STRATEGIC PROGRAMS

INFRASTRUCTURE EVENT MANAGEMENT (IEM) — Focused planning and support business-critical events (e.g. launches or migrations)

WELL-ARCHITECTED REVIEW — Detailed review of your architecture guidance on how to best design your systems

SUPPORT API — Programmatic access to AWS Support Center features to create, manage, and close your support cases, and operationally manage your TA check requests and status

ARCHITECTURE SUPPORT — Consultative reviews of your application architecture and how to align it with AWS

TRAINING — Credits for online self-paced labs provided through an AWS training provider

OPERATIONS SUPPORT — Consultative reviews of your cloud operations and advice for optimization