



Optimize drug discovery pipelines with NVIDIA BioNeMo

In collaboration with:



Train, develop, and deploy generative AI models for drug discovery applications running on Rescale with AWS and NVIDIA

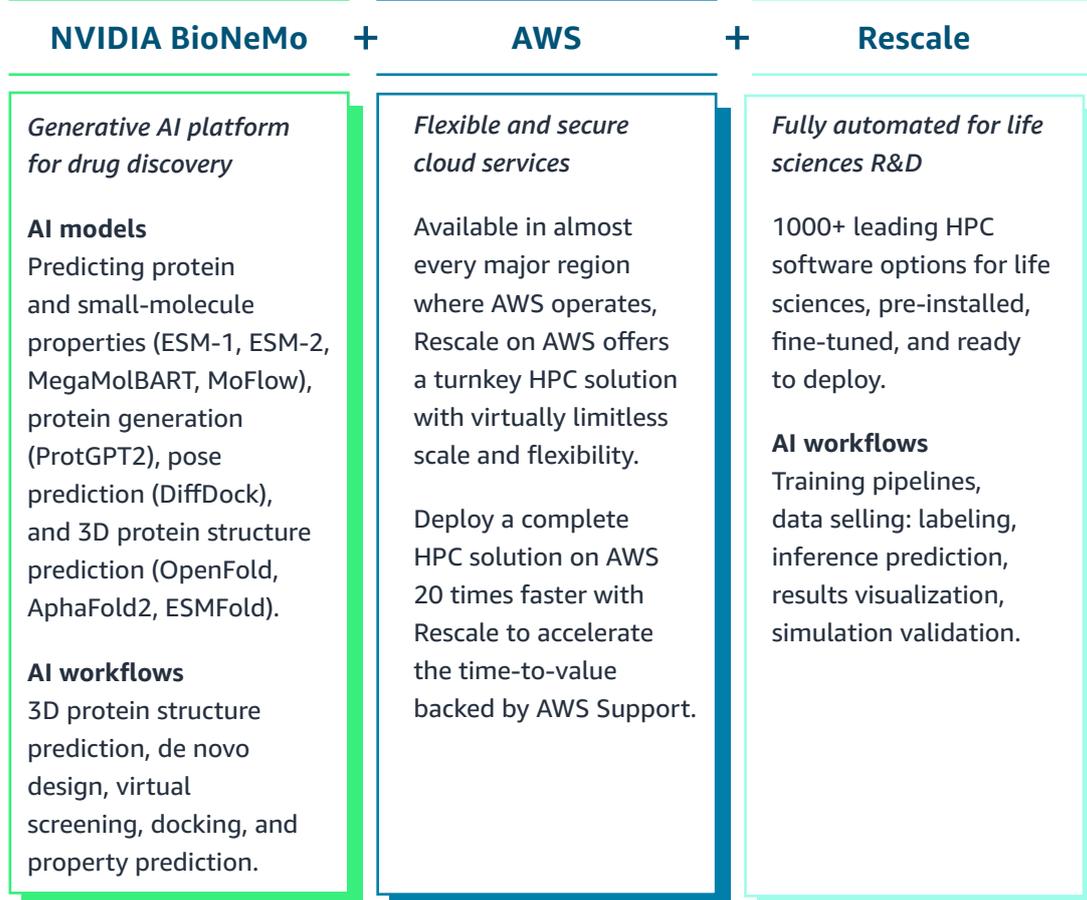
Rescale's high performance computing (HPC) platform running on Amazon Web Services (AWS) provides on-demand access to the latest software and hardware for drug discovery workloads. Scale and run computationally intensive workloads and deploy AI-enabled drug discovery applications on more than 1000 pre-installed and fine-tuned commercial and open-source software such as GROMACS and LAMMPS.

Rescale makes building an advanced and innovative drug discovery pipeline with generative AI simple. It pairs with NVIDIA BioNeMo using [Amazon Elastic Compute Cloud \(Amazon EC2\)](#) instances, powered by NVIDIA GPUs, and accelerates the process with pre-loaded, ready-to-use templates that access custom data directly from AWS services such as [Amazon EC2](#), [Amazon Elastic Block Store \(Amazon EBS\)](#), or [Amazon FSx for Lustre](#).

NVIDIA BioNeMo is a fast and easy way to build and integrate state-of-the-art generative AI applications across the entire drug discovery pipeline. It includes:

- Services to develop, customize, and deploy foundation models for drug discovery
- A collection of pretrained biomolecular AI models for protein structure prediction, protein sequence generation, molecular optimization, generative chemistry, docking prediction, and more
- Easy-to-access APIs for inference and customization

Using Rescale, BioNeMo seamlessly scales with dataset sizes, model sizes, and training tasks, and reduces time and cost for model development. To run efficiently BioNeMo needs access to large data storage and high performance, networked GPUs. Rescale manages this HPC environment on AWS with complete administrative control, so customers have the power of AWS infrastructure without worrying about performance, security, or budgets.



[Accelerate the journey to AI-powered drug discovery today ›](#)