

Academic Grant Program



# Call for Proposals: Data Science

## About This Call for Proposals (CFP)

NVIDIA has been transforming computer graphics and accelerated computing for more than 25 years. We're defining the next era of scientific computing and supporting top researchers doing compelling, computationally intense work to solve the world's most challenging problems. Developer Programs supports researchers in using our open models, SDKs, frameworks, and web services by providing training and in creating online communities to help researchers do their life's work using NVIDIA technologies.

NVIDIA solicits funding proposals for innovative work related to data science that incorporates [NVIDIA CUDA-X™ libraries for data science and data processing](#), including cuPy, cuOpt, cuDF, cuML, or cuGraph. Proposals should be attached to one of more of the following themes:

### Data Processing and Analytics

Focuses on innovative methods leveraging GPUs for processing and managing large datasets, and for enabling efficient advanced analytics. Research areas of interest may include:

- Data cleaning, data fusion, and data deconfliction
- Algorithms, integration, visualization, and the development of new scalable tools and frameworks to facilitate data processing and analytics in various domains, and their prospective integration with popular data science tools
- Large-scale data query engines and techniques (e.g., OLAP, SQL) for structured data such as databases, lakehouses, data warehouses, and other data stores

### Operational Research and Route Optimization

Leverages GPUs and advanced algorithms to improve the efficiency and effectiveness of routing in various contexts, such as transportation, supply chain logistics, optimized wayfinding, and network design. Research areas of interest may include:

- The development of new algorithms
- The application of optimization techniques to large-scale real-world problems

### Statistical Methods

Focuses on the development or application of novel statistical techniques, addressing challenges such as big data analytics, predictive modeling, time series analytics, or the handling of uncertainty in data. Research areas of interest may include exploring the intersection of statistics with machine learning.

### Graph Analytics

Focuses on developing novel graph applications and algorithms such as discovery, graph ETL, dynamic graphs, scalability, motif and pattern matching, coloring, and performing analytics tasks on graph data, using cuDF and cuGraph as key building blocks.

## Graph Neural Networks

Research or implementation efforts around training and inference tasks related to graph neural networks using CUDA-X DS libraries and cuGraph.

## Visual Analytics

Focuses on visual interface methods that combine data analytics with visual representation, allowing exploration of large datasets and discovery of patterns in dynamic visualization.

## Award Details

Selected principal investigators (PIs) may receive:

- > Up to 30,000 H100 80 GB hours or equivalent (max. of 8 concurrent GPUs) OR
- > Up to 2 DGX Spark™ units

Not all projects that meet eligibility requirements will be selected for an award. The final award amount will be determined by the NVIDIA awards panel. GPU hours provided to the PI will expire six months after award; unused GPU hours will be forfeited.

## Applicant Eligibility

Full-time faculty at accredited academic institutions that award research degrees to Ph.D. students are eligible. Postdocs and graduate students must work with a full-time faculty member to submit on their behalf.

Each person can submit one proposal per quarter, a maximum of four proposals annually. For example, one submission allowed in the first quarter, January–March. Each individual applicant is eligible to receive one award per calendar year.

## Proposal Requirements

Proposals must follow the [proposal template](#) and should not exceed four pages, not including appendices.

## Expectations of Recipients

Award recipient should make reasonable efforts to acknowledge the support of NVIDIA Corporation and reference how specific hardware and software contributed to project results. Recipients will inform NVIDIA of publications, presentations, open-source code and data releases, and speaking engagements that reference the supported project via the NVIDIA grant portal. Failure to report in the portal will influence future award selection.

Please review NVIDIA Academic Grant Program [terms and conditions](#).