SciPy provides fundamental numerical algorithms for scientific computing: statistics, numerical optimization, linear algebra, special functions, integration, interpolation, signal and image processing, and more. SciPy is a foundational building block for scientific and numerical computing in Python.

**USE CASES**

The EHT Collaboration is making significant use of SciPy’s optimization functionality in their black hole imaging pipelines.

Netflix uses SciPy for statistical analysis, machine learning, and operations.

SciPy is used by over 40% of machine learning projects on GitHub.

**PLANNED FEATURES**

+ We would like SciPy modules to be able to support execution on GPUs, via use of CuPy. The statistics, signal processing and optimization modules are good candidates to start with.

+ Speed improvements and the ability to parallelize algorithms are beneficial to most science domains and use cases; we want to expand support for multiprocessing and Python compilers like Pythran and Numba.

+ We would like to provide binary installers (wheels) for new hardware platforms - in particular ARM64, macOS M1 and PowerPC.
## PROJECT NEEDS

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>A community manager (part-time)</td>
<td>$40,000</td>
</tr>
<tr>
<td>A new website to replace the current scipy.org</td>
<td>$30,000</td>
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<tr>
<td>GPU support for SciPy submodules</td>
<td>$75,000</td>
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</tbody>
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For more information on SciPy, including our governance structure and project roadmap, please visit https://scipy.org/

For more information: info@numfocus.org | +1 (512) 831-2870.