

Request for Technology Fee Funds: FY19

NOTE: A separate request should be made for each initiative.

I. Department Number/Department Name:	360 College of Computing
Title of Request (please be brief):	Deep Learning and AI Accelerated Analytics System
Amount of Request (formula from detailed budget below):	\$105,552
Type of Proposal: Atlanta or Dist Lrng/Non-Atl	Atlanta
Was this project request funded in FY18?	No (Yes or No)
Are there installation/renovation costs associated with this request?	No (Yes or No)
If "Yes" then indicate the source of approved funding: <i>(Note: Tech Fees are not allowed for installation/renovation)</i>	

Executive Summary of Request (100 words or less):

To continue our leadership in the explosive field of Deep Learning our students need access to advanced machines optimized for the task. Systems, like the NVIDIA DGX-1, offer this capability. Students will gain access to the newest GPU toolkits and techniques with an investment in this equipment.

Specific class and/or lab initiative(s) if applicable:	
Contact person for this request (incl. phone #):	David Bader, Andrew Leonard, Will Powell
Indicate priority per department if applicable:	Number <u> </u> of <u> </u>
Indicate priority per college or unit:	Number <u> 5 </u> of <u> 7 </u>

II. Impact on Students - Provide course title, course number, and anticipated enrollments:

Titles/Numbers of Course(s)	CSE6140, 6220, 6230, 6643, 6730, 6242, 6740
Anticipated Enrollments	
Graduate:	1,311 (per <u> </u> yr) sem or yr
Undergraduate:	(per <u> </u> yr) sem or yr
Total:	1,311

NOTE: Other impacts on students should be described in narrative.

III. Narrative - Provide narrative justification for your intended use of the technology fee funds. Include narrative on how the education or research of the students will be enhanced. Also include how the request aligns with the Strategic Plan of Georgia Tech. Continue in the block below if necessary.

Purpose-built systems for Deep Learning are beginning to offer advantages not easily reproducible by generalized systems. NVIDIA's commitment, specifically, to this platform and its associated software development kit are rapidly leading to new breakthroughs in AI. We propose acquiring a DGX-1 system for our advanced ML and AI analysis curriculum.

IV. Detailed Budget - Requested Items by Category List separately any equipment, software, and other allowable expenses (see Tech Fee Guidelines). There is a formula in the "total column" that multiplies the number of items times the unit price. You may enter a figure into the total column if the unit pricing is not applicable. If you need additional rows, contact the Budget Office to receive a modified form.

Supporting documentation is required- Include price justification in some form, such as quotations, published price lists, etc. as a separate PDF attachment. All supporting information should be in a single PDF.

Proposed Number of Items	Estimated Price per Unit	Total (\$)
NVIDIA DGX-1 with 8x V100 Volta Tesla GPUs	1	\$105,552
.....		\$0
.....		\$0
.....		\$0
.....		\$0
Total (linked to the total amount of request line above)		\$105,552

III. Continuation of narrative justification, if necessary