## Request for Technology Fee Funds: FY19

	NOTE: A separate request should be	e made for o	each initiative.				
l.	Department Number/Department Name:	360	College of Computing	/GVU Center			
	Title of Request (please be brief):	ototyping Lab Expansion					
	Amount of Request (formula from detailed budget below):			\$357,000			
	Type of Proposal: Atlanta or Dist Lrng/Non-Atl	Atlanta		4001,000			
	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: (Note: Tech Fees are not allowed for installation/renovation)						
	Executive Summary of Request (100 words or less):						
	In order to meet the needs of researchers and students affiliated with the GVU center, the prototyping lab requires new tools and technology to meet the evolving demands of Georgia Tech instruction and research.						
	Specific class and/or lab initiative(s) if applicable:						
	Contact person for this request (incl. phone #):	Tim Trent (38	35-7610) Keith Edward	s (385-7683)			
	Indicate priority per department if applicable:		Number	of			
	Indicate priority per college or unit:		Number	7 of <u>7</u>			
II.	Impact on Students - Provide course title, course number, and anticipated enrollments:						
	Titles/Numbers of Course(s) (see Section III)						
	Anticipated Enrollments	Graduate:	268	(per yr ) sem or yr			
	U	ndergraduate: Total:	253 521	(per yr ) sem or yr			
	NOTE: Other impacts on students should be described in narrative.	TOLAI.	521				
III.	Narrative - Provide narrative justification for your intended use of the t	echnology fee	funds. Include narrativ	re 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.						
	CS2698, CS2699, CS3651, CS4605, CS4903, CS4980, CS4698, CS469	9, CS7470, CS	88903				
	The GVU Center's Rapid Prototyping Lab acts as a one-stop destination complete projects that need professional levels of prototyping. The professional Tech's campus and is accessible to students and researchers courses ranging across the institute, not just one college. In an effort campus that involve fabrication, the GVU center is constantly looking at the varied projects that are brought into the lab, from Junior/Senior destools are required to promote innovation and enrich the student experimaddition to the GVU lab. The proposed waterjet has been developed by departments on campus (the Invention Studio, the SCC, etc). The Micro	totyping lab dr of every colle to support the at how best to ign courses, Valent. A precision a company the	aws from many of the or ge/major. Students wor many different divisions meet the needs of its u /IP work, UROP, and gron on waterjet would serve at has supplied many w	departments across k on projects from s of Georgia Tech's users. After considering raduate research, new as a revolutionary vaterjets to various			
IV.	<b>Detailed Budget - Requested Items by Category</b> 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.						
	<b>Supporting documentation is required-</b> 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 (\$)			
	Omax MicroMax Waterjet	1	\$300,000	\$300,000			
	Omax Micromax Recommended Accessories	1	\$57,000	\$57,000			
				\$0 \$0			
				\$0			

**Total** (linked to the total amount of request line above)

\$357,000

Please retur	n torm via e-ma	all in Excel format to	: techtees@business.gatech.edu.	Supporting information only in a PDF file	e.

## III. Continuation of narrative justification, if necessary

the other machines on campus and focuses mainly on allowing for extra precision in its cutting. This technology is perfect for a lab that is focused on developing projects that incorporate electronics into Internet of Things and wearable technology, as such precision is often necessary when creating such devices. Additionally, adding a precision waterjet allows for production of prototypes that are impossible in other areas on campus, simply due to material requirements for most other fabrication techniques. For example, many medical devices cannot be 3D printed or lasercut, so the only way to develop a medical device that requires precision machining is with a waterjet. This specific device further establishes Georgia Tech as a center for innovative technologies in the United States, as it has yet to be adopted by universities or industry within the Southeast; Georgia Tech would be one of the few institutes to have such advanced capabilities. With the number of students that must rely on customized parts ordered from outside vendors to complete their projects, the addition of an Omax Micromax machine would greatly benefit a substantial part of the campus community. The expansion of the prototyping lab is an investment in the long-term success of Tech, aligned with the first three of Georgia Tech's Strategic Goals: Be among the most highly respected technology focused learning institutions: Giving students the cross-disciplinary training and experience with cutting-edge rapid prototyping technologies allows graduates to be immediately valuable to employers. Sustain and enhance excellence in scholarship and research: Creating devices as part of classwork or research is a "hands and minds" approach to education. Individual students and researcher labs cannot afford state-of-the-art tools for only occasional use, however the GVU Prototyping lab enables personal experiences with tools that, for many students, are discussed but never directly used in class. Ensure innovation, entrepreneurship, and public service: Th