

16.810

Engineering Design and Rapid Prototyping
 Dept of Aeronautics & Astronautics
 Massachusetts Institute of Technology

IAP 2007

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Version 1.1

Cost Estimation Sheet

To be submitted by each team by: January 25, 2005

Section		Rate	Qty	Total Cost
I. Design and Engineering				
	Labor Rate for each Designer	\$75/hour		
	Labor Rate for CAD/CAM workstation	\$40/hour		
II. Materials Costs				
	Aluminium Sheet	0.125 in. thick	\$50/sheet	
		0.250 in. thick	\$125/sheet	
	Aluminum Rod - 4-ft length		\$5 per length	
III. Foam Wing Manufacturing				
	Foam Sheet (24"x48"x2" thick)		\$35/sheet	
	Labor Rate		\$40/hour	
	Machine Use (operates at 1560 watts)		\$70/KW-hour	
IV. Waterjet Manufacturing				
	Labor Rate		\$55/hour	
	Machine Use		\$75/hour	
V. Other Manufacturing				
	Fiberglass Labor Rate		\$35/hour	
	Other Miscellaneous Work Labor Rate		\$30/hour	
VI. Assembly and Testing				
	Assembly Work Labor Rate		\$55/hour	
	Wright Brother's Wind Tunnel Operating Cost		\$300/hour	
			Hours	Cost:
Total:				

Please use this cost estimation sheet to compile the number of hours spent on the specific parts of the project. Also, please compile the total costs associated with the project at the specified labor rates. If there are any questions, please direct them to the TA's.