

ME 491: Proposal for major projects in ME 492-493
Sponsor: PSAS
Project: OreSat Deployable Antenna
Proposal: P17

Fall 2017

Scores	Proposal Score		Maximum Scores		Comments
	Sub-score	Section Score	Sub-score	Section Score	
Team		10		10	
PDX email	5		5		
Elective courses & skills	5		5		
Client Needs/Market Opportunities & Design Challenges					
Project objective statement		7		8	
One sentence format	3		3		Specify numerical value of budget
Clear, concise, specific	2		2		
Timeline, primary objective, cost	2		3		
Client needs		9		15	
List is complete -- includes primary customer needs	2		5		Needs work: Your list in Table 1 needs more detail -- more specific items.
Client needs are grouped into primary & secondary	2		4		Narrative text above Table 1 is helpful, but requires wading through prose to extract specific items. A detailed table with one market
Primary needs are sufficiently distinct	3		3		requirement (customer need) per row would be much more helpful.
Client needs ranked by importance	2		3		
Performance Measures		0		15	
Given as metric plus value and are useful	0		5		Performance measures, as a distinct list and in the format of
At least one performance measure per primary client need	0		5		Requirements matrix, are missing. Some performance measures (metric +
Needs-metrics matrix is complete	0		5		value) are buried in text. You need to make requirements easy to find.
					The Requirements Matrix provides one way of organizing the data and
					making interdependencies (or conflicts) between performance measures
					(and hence client needs) apparent.
Design challenges		7		7	
Identification of challenges	4		4		
Plans reflect need to prioritize work on biggest challenges	3		3		
Plans for completing the project					
Design techniques		25		25	
Information gathering plans	6		6		
Market analysis and external search	6		6		
Plans for prototype development throughout timeline	6		6		
Engineering analysis methods and tools	7		7		
Physical and other resources		8		10	
Space, component, sensor and manufacturing needs	4		4		A practical constraint on resources is that grant money is prescribed for
Practical constraints on resource acquisition & purchases	2		4		specific purchases and kinds of support. That won't be a problem (shouldn't
Anticipated needs for consulting or external expertise	2		2		be a problem!) for your team, but you do need to be mindful of
					procedures.
Key milestones and deliverables		9		10	
Milestones with specific dates linked to project evolution	4		5		Don't confuse tasks, which span a period of time, with milestones, which
Deliverables linked to specific outcomes	5		5		have a specific date and should be coupled to major events or decisions
					associated with the fate of the project.
	75	75	100	100	

Overall comments