



- Priority: “Be a recognized leader in selected areas of education and research.”

Known	Could be Known	Should be Known
Atmospheric Science	Systems	Computational Science and Engineering
Solar Terrestrial Processes	Computational Science and Engineering	Data Management and Informatics/Cyberspace
Remote Sensing Archeology	Entrepreneurship	Management and Integration of Technologies in Health Systems
Nursing Education	UG Education in Science and Liberal Arts	Interdisciplinary STEM Integration
Aerospace Engineering	Propulsion	Information Security
Propulsion	Rotocraft Engineering	Optics
Astrophysics	Supply Chain Management	Entrepreneurship
	Sports Physiology	Nursing Informatics and Biogenetics
	Piano Performance	Communication Science
	STEM Education	International Affairs/Business
	Materials Science	
	Nursing Technology	
	Biotechnology	
	MBA	
	Industrial Engineering	
	Engineering Education	
12/3/2012	Urban Infrastructure	



- Have identified some selected areas of education/research in which UAH is/could be be/should be a leader
- Need to broaden discussion
- Finalize selected areas for branding/marketing/investment purposes
- Solicit proposals to identify leadership areas
 - Targeted solicitation (from some already identified)
 - Broad solicitation

Areas for Targeted Solicitation

Atmospheric Science	Simulation
Space Science	Entertainment Arts
Nursing	Design
Aerospace including Rotorcraft and Propulsion	Biotechnology
Systems Engineering	Entrepreneurship
Cyber Security	Software Engineering
Geospatial Technologies	Healthcare Systems Technologies
Optics and Photonics	Data Management

- Proposal to address
 - Does it build on existing strength?
 - Does it cut across academic units?
 - Does it engage academic units in research centers and vice versa?
 - Is there a customer base?
 - What are the resources to implement?
 - What is the projected impact?

	Leadership Criteria					Impact Factor & Potential					Score
	LC #1	LC #2	LC #3	LC #4	LC #5	IF #1	IF #2	IF #3	IF #4	IF #5	
Score from 1 to	10	10	10	10	10	10	10	10	10	10	
Recognized Existing Leadership											
Climate Analysis and Modeling (Atmospheric Science plus related areas)	8	9	8	9	9	7	9	8	7	9	84
Solar Terrestrial Processes (Heliosphere, etc)											-
Nursing Education											-
											-
											-
Leadership without Recognition											
Aeronautic and Space Related Complex Systems											-
Computational Science and Engineering											-
Entrepreneurship											-
Undergraduate Education in Science And Liberal Arts											-
											-
											-
Where UAH should be Leaders											
Data Management and Informatics (Security, data mining, etc.)											-
Management and Integration of Emerging Technologies in Health Systems (patient care, etc.)											-
Innovative Interdisciplinary Efforts to Integrate STEM with other Disciplines (Education, policy, arts, social impact of technologies, etc.)											-
											-
											-
10 LC #1	National and International Ranking					10 IF #1	# of Students, Faculty , Centers Involved				
10 LC #2	Data on Research Expenditures and Foundation Money					10 IF #2	Potential for Growth & Alignment with National Needs				
10 LC #3	Discoveries and Achievements					10 IF #3	Differentiating Advantages (Unique to UAHuntsville)				
10 LC #4	Quality (Incoming and Outgoing students & Faculty)					10 IF #4	Enhancing Entrepreneurship and Regional Workforce				
10 LC #5	Published and Cited Works(including Theses and Dissertati					10 IF #5	Probability of Success				
50						50					



- Process
 - Selected individuals asked to respond to targeted areas
 - Broad solicitation through Provost to Deans and VPR to Center Directors
 - Proposal: Three pages plus resumes of participants
 - Submission by ~~Jan 25~~ Feb 4 (gives about 5 6 work weeks)
 - Committee review
 - Selection at President and VP level