

## Research and Innovation (Strategies, Critical Tasks and Timeline)

Updated August 11, 2021

<b>Goal:</b> To be known internationally for groundbreaking aerospace/aviation research and innovation in select, signature areas, and for discovery-driven undergraduate programs.		
Strategies	Critical Tasks (PERSON RESPONSIBLE)	Deadline
<b>Signature Research Areas:</b> Identify select, signature research themes where ERAU has a competitive global advantage. Incentivize research and collaboration in these areas and build the necessary infrastructure to compete for large-scale, funded research projects.	(e) Create shared facilities and resources that enable collaborations and major proposals related to our select areas of research. (D-ALL-ALL, SVP-A, SVP-AAP) (f) Recognize researchers through prestigious awards. (SVP-AAP) (g) Leverage Worldwide global educational network to become a leader in international research collaboration. (C-WW)	(e) Ongoing  (f) Ongoing (g) Ongoing
<b>Graduate Programs:</b> Identify and support select, signature graduate programs and recruit a research-ready graduate student body.	(b) Require R1-competitive stipends/benefits for all graduate assistants. (SVP-AAP, PI) (c) Expand online graduate programs and professional development offerings in select areas in which ERAU has a competitive advantage. (SVP-AAP, C-WW)	(b) Ongoing (c) Ongoing
<b>Undergraduate Discovery:</b> Make ERAU a national model for integrating research as a critical element to enrich the undergraduate curriculum and spur innovation.	(a) Expand curricular and co-curricular opportunities for undergraduate research and scholarship, allowing students in all programs to gain experience. (SVP-AAP) (c) Recognize undergraduate research/scholarship mentorship in workload, faculty evaluations, and tenure and promotion; and support research-based curricular development and implementation. (SVP-AAP, CAO-ALL)	(a) Ongoing  (c) Ongoing
<b>Innovation:</b> Accelerate innovation and strengthen industry partnerships.	(c) Recognize and reward disclosures, patents, and contribution to the University innovation ecosystem. (SVP-AAP, D-ALL-ALL) (d) Integrate entrepreneurship into curriculum as an educational learning outcome. (SVP-AAP, D-ALL-ALL)	(c) Ongoing  (d) Ongoing

*Note: Completed tasks are summarized in corresponding Task Completion Timeline.*

## Research and Innovation (Task Completion Timeline)

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<b>Goal:</b> To be known internationally for groundbreaking aerospace/aviation research and innovation in select, signature areas, and for discovery-driven undergraduate programs.		
Strategies	Critical Tasks (PERSON RESPONSIBLE)	Date Completed
<b>Signature Research Areas:</b> Identify select, signature research themes where ERAU has a competitive global advantage. Incentivize research and collaboration in these areas and build the necessary infrastructure to compete for large-scale, funded research projects.	<ul style="list-style-type: none"> <li>(a) Launch a Presidential Fellow faculty hiring initiative in select areas of research. (SVP-AAP)</li> <li>(b) Reward highly successful, well-funded faculty with competitive compensation. (SVP-AAP, D-ALL-ALL)</li> <li>(c) Increase internal research and development funding in areas with high ROI. (SVP-AAP)</li> <li>(d) Create customer-centric research support infrastructure. (SVP-CFO, SVP-AAP)</li> </ul>	<ul style="list-style-type: none"> <li>(a) Jan 2019</li> <li>(b) Mar 2019</li> <li>(c) Feb 2019</li> <li>(d) Mar 2019</li> </ul>
<b>Graduate Programs:</b> Identify and support select, signature graduate programs and recruit a research-ready graduate student body.	<ul style="list-style-type: none"> <li>(a) Require that tuition support be included for graduate research assistantships on all grant applications and graduate assistants supported by ERAU. (SVP-AAP, PI)</li> <li>(d) Provide staff support to increase the number of competitive applications for prestigious scholarships and fellowships. (SVP-AAP)</li> </ul>	<ul style="list-style-type: none"> <li>(a) Aug 2018</li> <li>(d) Mar 2019</li> </ul>
<b>Undergraduate Discovery:</b> Make ERAU a national model for integrating research as a critical element to enrich the undergraduate curriculum and spur innovation.	<ul style="list-style-type: none"> <li>(b) Provide staff support to increase the number of competitive applications for prestigious scholarships and fellowships. (SVP-AAP, C-ALL, CAO-ALL)</li> </ul>	<ul style="list-style-type: none"> <li>(b) Mar 2019</li> </ul>
<b>Innovation:</b> Accelerate innovation and strengthen industry partnerships.	<ul style="list-style-type: none"> <li>(a) Establish a University Corporate Relations and Business Development Office. (P)</li> <li>(b) Create a University-level fund to invest in student and faculty business startups. (SVP-AAP)</li> </ul>	<ul style="list-style-type: none"> <li>(a) Mar 2019</li> <li>(b) Jul 2018</li> </ul>

*Note: Tasks in progress are summarized in corresponding Strategies, Critical Tasks and Timeline.*

## Research and Innovation (Performance Metrics)

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Performance Metrics	FY-18 (baseline)	FY-19	FY-20	FY-21	FY-22	FY-23
<b>Metric 1 - Research Productivity</b> <i>Definition: Annual research expenditures.</i>	22.3M	\$21.6.M <span style="color: red;">●</span>	\$23.0M <span style="color: green;">●</span>	\$25.5M <span style="color: green;">●</span>	\$29.0M	\$32.0M
<b>Metric 2 - Presidential Faculty Fellows</b> <i>Definition: Number of faculty hired under Presidential Faculty Fellows program.</i>	-	1 <span style="color: red;">●</span>	3 <span style="color: red;">●</span>	3 <span style="color: red;">●</span>	5	8
<b>Metric 3 - Doctoral Production</b> <i>Definition: Number of PhD graduates per year.</i>	12	4 <span style="color: green;">●●</span>	8 <span style="color: green;">●●</span>	12 <span style="color: green;">●</span>	16	20
<b>Metric 4 - Undergraduate Discovery and Innovation</b> <i>Definition: Percentage of baccalaureate graduates who have participated in faculty-mentored research, professional society sponsored competitions, capstone design projects, entrepreneurial activities/classes, etc., that contribute to discovery and innovation mindset.</i>	96.8%	40% <span style="color: green;">●</span>	50% <span style="color: green;">●</span>	60% <span style="color: green;">●</span>	98.5%	99.0%
<b>Metric 5 - Business Partnerships</b> <i>Definition: Number of SBIR and STTR grant applications awarded.</i>	2	1 <span style="color: red;">●</span>	2 <span style="color: green;">●●</span>	3 <span style="color: green;">●●</span>	4	5

●● Goal exceeded by 2X; ● Goal achieved; ● Goal achieved at 90 - 99% level; ● Goal not achieved