

Research and Innovation

Goal 4: Advance ERAU's research enterprise through groundbreaking aerospace and aviation research, innovation and scholarly activity.

Strategies	Critical Tasks	Deadline
(1) Signature Research Areas: Focus resources in research center development and other select areas that yield external recognition for excellence to help elevate rankings and the value of degrees that students are earning.	(a) Provide internal resource opportunities for research activity with high prospect for external funding.	Ongoing
	(b) Identify, review and reward faculty who have high scholarly productivity and external research funding.	Ongoing
	(c) Further establish cross-college, cross-campus and prospective cross-institutional collaborations through identification and support of new, as well as existing Centers of Excellence.	Ongoing
	(d) Improve visibility of the research enterprise, chiefly through earned media and external communication.	Ongoing
	(e) Continue the Presidential Fellow faculty hiring initiative in select areas of research.	Ongoing
(2) Focused Graduate Programs: Build excellence in a limited number of graduate programs that can compete for national recognition.	(a) Increase the number of graduate students who receive support through external funding.	Ongoing
	(b) Offer training to further facilitate graduate student fellowship awards from external entities.	Ongoing
	(c) Encourage graduate student authorship and presenter status on research dissemination activity.	Ongoing
(3) Undergraduate Discovery: Integrate research as a critical element to enrich the undergraduate curriculum and spur innovation.	(a) Implement research opportunities, entrepreneurial activities and research park student initiatives aimed at improving the undergraduate experience.	Ongoing
	(b) Increase experiential learning opportunities surrounding research to promote engagement and performance through building broader research supports for undergraduate students.	Ongoing
	(c) Promote undergraduate participation in research projects.	Ongoing
	(d) Offer guidance and support to undergraduate students applying for research awards and other research recognitions.	Ongoing
(4) Innovation: Accelerate the advancement of processes, methods, and applications through discovery, innovation, and business and industry partnership.	(a) Offer training to faculty on the process of intellectual property disclosure, technology transfer and commercialization.	Ongoing
	(b) Facilitate entrepreneurship training for faculty and students.	Ongoing
	(c) Increase licensing and commercialization of Embry-Riddle Intellectual Property.	Ongoing
(5) Broader Impact: Leverage Embry-Riddle's reputation in aviation and aerospace to attract external funds that support individuals from historically underrepresented groups.	(a) Identify and pursue grants, fellowships and scholarship applications by faculty and students for programs supporting historically underrepresented groups.	Ongoing
	(b) Ensure that proposals meet or exceed sponsor diversity, equity and inclusion standards in research participant recruitment and implementation plans.	Ongoing
	(c) Partner with professional society bridge programs that support historically underrepresented groups in aviation and aerospace.	Ongoing

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Performance Metrics	FY-22 actuals	FY-23 baseline ¹	FY-24 Goal	FY-25 Goal	FY-26 Goal	FY-27 Goal	FY-28 Goal
Metric 1 - Research Productivity: Annual research expenditures.	33.7M	TBD	\$34.0M	\$35.3M	\$37.0M	\$38.9M	\$40.8M
Metric 2- Doctoral Programs: Number of conferred doctoral degrees per year.	38	33	23	23	25	25	27
Metric 3 - Doctoral Student Support: Amount (\$) of external funds supporting doctoral students.	\$1.2M	TBD	\$1.2M	\$1.3M	\$1.3M	\$1.4M	\$1.5M
Metric 4 - Undergraduate Discovery and Innovation: Percentage of academic units that provide formal research and/or scholarly engagement activity for undergraduate students.	75%	75%	75%	80%	85%	85%	90%
Metric 5 - Business Partnerships: Number/amount (\$) of grants received with collaborating industry partners.	12 / \$1.3M	TBD	12/\$1.4M	13/\$1.5M	14/\$1.6M	14/\$1.6M	15/\$1.7M
Metric 6 – Intellectual Property and Commercialization: Number of intellectual property disclosures, technology transfer agreements, and patents authored by faculty, students and staff.	11	TBD	11	11	12	12	13
Metric 7 – Broader Impact Funding: Amount (\$) of grant funding received in support of historically underrepresented groups in aviation and aerospace.	N/A	N/A	\$100K	\$200K	\$400K	\$500K	\$750K