

Priority Area 4: Research and Community Engagement OWNER: Sandeep Gopalan

Liaisons - Dr. Yen Dang and Dr. Joyce Bell

Goal 4.1: Develop and strengthen infrastructure to develop research

Measure/Metric	2024-2026 Target	Benchmark	Proposed Strategies	Next Steps	Resources Needed
Total extramural R&D funding annually, number of training/professional development programs to support research by OSRP	Target: ≥ 1% increase in total extramural R&D funding annually through 2028.	Develop system for billing and salary support expenditures by 2024 Hire two OSRP personnel by 2024 Increased professional development and training opportunities for faculty by 2024 Offer two – three trainings on grant management best practices per academic year Review and revise policies for OSRP by 2025	Tracking measures for research Optimize billing/salary support expenditures for research programs Increase personnel needed to support research programs Professional development increase for research More training about how to manage grants Policy development for the office of research and sponsored programs	1) Review research & billing policies and procedures to determine if revisions are needed ; 2) Survey faculty to determine research/grants needs and develop trainings based on the survey outcomes	More personnel in OSRP (e.g. grant writer or budget tracker), hire company with expertise in training/professional development for research, more policies needed to support research (e.g. incentive plan, billing policies, etc.)

Goal 4.2: Align UMES research strengths with emerging national research priorities

Measure/Metric	2026-2028 Target	Benchmark	Proposed Strategies	Next Steps	Resources Needed
Annual percentage increase in R&D expenditures by USM institutions in priority research areas	> average of three prior years under each identified priority area of agency	OSRP will receive funding to conduct research on two national priorities by 2025 OSRP will collaborate with other USM institutions to develop research clusters that focus on emerging national priorities by 2025	Identify national research priorities and how we are addressing them develop research clusters (interprofessional based on national research priorities (research centers)	Identify 3 top national priorities by 2025 and map how UMES is meeting these priorities Identify leaders for each priority to lead the university in increasing R&D expenditures in priority areas	OSRP

Goal 4.3.: Promote technology transfer and commercialization of the UMES intellectual property.

Measure/Metric	2026-2028 Target	Benchmark	Proposed Strategies	Next Steps	Resources Needed
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Number of patents and licenses/options annually	Increase the number of patents, licenses, and options in the past 5 yrs	Currently 11 patents at held at UMES.	Increase the number of patents and licenses	1) Identify faculty interested in patents/licenses options and develop trainings to enhance output	N/A

Goal 4.4: Grow the number of research partnerships with industry, agencies, NGOs, international and academic institutions

Measure/Metric	2028-2030 Target	Benchmark	Proposed Strategies	Next Steps	Resources Needed
Percentage of annual USM R&D Expenditures not from federal, state, or local government sources	Target: ≥ the percentage of R&D expenditures coming from the non-governmental sectors in the prior year.	<p>OSPR will expand partnerships with two non-governmental sectors by 2025</p> <p>OSRP will increase their MOU and articulations agreements with non-governmental sectors by 2025</p> <p>OSRP will work with a web designer to redesign the OSRP website by 2024</p> <p>OSPR will develop and share an annual research report by 2024 with the campus community as well as the external research community</p>	<p>Expand and strengthen partnerships by joining professional organizations (MD dept of health, Microsoft, Princeton Univ)</p> <p>Establish MOUs and articulation agreements with external partners</p> <p>Website redesign (focused on research)</p> <p>Research report (annual report) sent to campus, community partners, other universities for people to understand research enterprise at UMES</p> <p>Increase advertising research projects currently available on campus</p>	<p>1) Identify R&D from non-federal, state, or local government sources and develop MOUs/articulation agreements with current sources; 2) Monthly updates of available non-government sources of funding by OSRP; 3) Hire personnel to redesign and manage research website and create annual report</p>	Tracking to see what existing partnerships we have with non-government sectors as a baseline.

Goal 4.5: Diversify our R&D portfolio by securing basic and applied research funding from the private and government sector

Measure/Metric	2028-2030 Target	Benchmark	Proposed Strategies	Next Steps	Resources Needed
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Percentage of annual USM research expenditures coming from the business and government	Target: ≥ the percentage of R&D expenditures coming from the Business and government sector in the prior year.	Need to obtain updated data from OSP but 42% of federal awards came from USDA. Will need to confirm this with ORSP Workday In FY 20 (reported in FY 21) the percentage of total USM R&D expenditures coming from sources other than federal, state, or local governments was 32.04% and the Business sector was 2.41%.	Increase business and government sector funds	1) Identify sources of R&D research expenditures from business and government sectors; 2) Update faculty monthly about sources of business and government funding opportunities; 3) provide faculty training to secure research funding from private and government sectors	N/A

Goal 4.6: Leverage USM institutional resources and expertise and collaboration with stakeholders to increase UMEs's contributions to climate change and education

Measure/Metric	2028-2030 Target	Benchmark	Proposed Strategies	Next Steps	Resources Needed
Total annual funding related to climate change and education	Target: ≥ the percentage of climate change and education expenditures coming in the past 3-5 years.	No benchmark exists and will need to reevaluate this data with OSRP on Workday	Work with environmental agencies, NGOs, and government to increase research for climate change Building more K-12 educators Curricular development Strengthening STEM relationship with K-12 educators More DEI among educators	1) Identify current research priorities for climate change and education; 2) Develop MOUs with K-12 educators on climate change and education issues; 3) Identify leader to facilitate resources, collaborations, and develop trainings for K-12 educators ; 4) Identify benchmark based on review of institutional contributions to climate change and education; 5) Hire consultant to lead the subgoal	Consultant needed

Goal 4.7* Expand community-based research to strengthen the communities (USM 4.10)

Measure/Metric	2026-2028 Target	Benchmark	Proposed Strategies	Next Steps	Resources Needed
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<p>Total annual funding for community-based research</p>	<p>Target: ≥ the percentage of expenditures coming community-based research in the prior year.</p>	<p>OSRP will work with community partners to identify community needs and issues by 2025</p> <ul style="list-style-type: none"> <input type="checkbox"/> OSRP will identify funding sources to address community needs by 2025 <input type="checkbox"/> OSRP will provide opportunities for students to become informed and engaged with the community by 2026 	<p>Outreach and leadership development (research needs in the community; program-based development)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Educate students to be informed and engaged global citizens to be change agents in the community 	<p>1) Engage community partners to determine research needs; 2) Identify and secure funding sources that will address identified research needs; 3) Provide opportunities for students to be engaged in community-based research</p>	<p>N/A</p>
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