UNM Research Strategic Plan Briefing
An Update on the Research Strategic Planning Process

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The University Of New Mexico

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Vision
UNM will dramatically enhance its research excellence such that its culture of scholarly creativity, discovery and innovation is recognized internationally, is an integral part of education, and is a source of inspiration for all New Mexicans.

Mission
To significantly enhance capacity and competitiveness and impact in world class research and creative activity by tenure track, tenured and research faculty, graduate students and postdoctoral fellows, research staff and undergraduates.
Research Strategic Planning (RSP) Process

Committee Formed May 2016

Chaired by VPR
Diverse group of faculty & staff (17)
Represents a broad scope of research & scholarly/creative works
Facilitates working groups to address strategic components
Kick-off meeting June 2016 & meets biweekly

Process Summer 2016 – Spring 2017

Includes opportunities for engagement & feedback

Draft research strategic plan with goals, objectives & metrics – December 2016

Feedback Period – January-February 2017

Research Strategic Plan - Spring 2017
RSP Committee
RESEARCH.UNM.EDU/RSP-COMMITTEE

The Research Strategic Plan Committee will assist in developing broad strategic goals, specific objectives and activities or task to accomplish the objectives and goals. The committee will synthesize reports from the working groups and assist with the development of a draft research strategic plan for comment where appropriate.
RSP Working Groups

Research Strategic Plan Working Groups:

Environmental Scan | Research Excellence | Federal & State Government Relations | Human Capital | Infrastructure | Corporate Relations

These groups are chaired and co-chaired by two RSP Committee members

An additional 63 research faculty and staff make up the members for the working groups

A seventh group is working on Main Campus Research-Health Sciences Center collaborations

Each has a charge and timeline for contributions to the plan, including reports
Environmental Scan Working Group

Assess current and future trends as well as opportunities and challenges in research and technology by consulting with internal and external subject matter experts and other constituent groups and key stakeholders in order to analyze and document how these trends will affect research faculty, staff, and students, research centers and programs, resources, facilities, and funding.

Chair: Janie Chermak, Professor, Economics

Associate Chair: Patricia Henning, Interim Associate Vice President for Research, Office of the Vice President for Research, Professor, Physics and Astronomy

Members:

Mary Jo Daniel, Faculty Research Development Director & Associate Professor, Office of the Vice President for Research;

Tobias Fischer, Professor, Earth and Planetary Sciences;

Barbara McCrady, Director, Center for Alcohol, Substance Abuse, and Addictions, Distinguished Professor & Director, Psychology;

Gabriel Sanchez, Executive Director, Robert Wood Johnson Foundation Center for Health Policy, Professor, Political Science;

Andrew Shreve, Director, Center for Biomedical Engineering, Professor, Chemical and Biological Engineering
Update From The Environmental Scan Working Group

Draft of report completed October 2016

Inform analyses of other working groups

Examples of key opportunities from this report:

Diversify Funding Portfolio
Build on strengths unique to UNM & NM
Find “niche” research areas
Expand collaboration across areas
Use New Mexico as a model for the rest of the country
Impact of Research @ UNM

2016-2017 UNM MAIN CAMPUS REVENUE

Use of Balance, 55,400,000
Grants/Contracts & Student Aid, 202,000,000
Facilities & Administration, 20,200,000
Private (Gifts & Grants/Contracts) 43,100,000
Endowments, 4,200,000
State Appropriations - Operating, 196,000,000
State Bonds, 13,400,000
Tuition & Fees, 193,900,000
Sales & Services, 86,100,000
Other Sources, 88,000,000

• Research revenue is a significant fraction of total (FY16 $141M)
• Maintaining research excellence is profitable, and cuts that diminish our competitiveness will diminish revenue
• Guided investments & initiatives to continue growth are needed especially in cross cutting areas
• Economic impact on NM is significant, and can generate good will across state constituencies
Research Excellence Working Group

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Make recommendations that will guide UNM’s response to changing patterns of support for sponsored and non-sponsored research, with the overall goal of ensuring that UNM advances its stature as one of the world’s great research universities by exploring and characterizing all aspects of UNM research on main campus and taking into account UNM’s characteristics, including the central importance of undergraduate and graduate education.

Chair: Melanie Moses, Associate Professor, Computer Science; Professor, Biology

Associate Chair: Caroline Smith, Associate Professor, Linguistics

Members:

Vince Calhoun, Chief Technology Officer, The Mind Research Network, Distinguished Professor, Electrical and Computer Engineering, Professor, Computer Science;

Julie Coonrod, Professor, Civil Engineering, Dean, Graduate Studies GS;

Kathryn McKnight, Associate Professor, Spanish Portuguese;

Mary Anne Newhall, Associate Dean for Research & Technology, Fine Arts, Associate Professor, Dance;

Christine Sims, Associate Professor, Language, Literacy, & Sociocultural Studies;

Thomas Turner, Curator of Fishes: Museum of Southwestern Biology, Associate Dean for Research, College of Arts and Sciences
Update From The Research Excellence Working Group

Breaking Barriers & Creating Connections

Build the framework to identify excellent and distinctive research

In process of collecting & analyzing data:

- Interviews with Administrators and Associate Deans for Research
- Quantitative Data by Department
- Survey Main Campus department chairs & center directors
- Dissertation & thesis abstracts, titles and keywords

Survey: MC Research Excellence
DEPARTMENT CHAIRS AND CENTER DIRECTORS

Why Department Chairs & Center Directors?
Their input is crucial to mitigate the inherent difficulties in identifying excellent research across a broad diversity of programs and assessing research with objective criteria.

This is an opportunity to communicate:
• research that is particularly ground-breaking, innovative, creative, high-impact and/or unique to UNM;
• areas of excellent cross-cutting research that span multiple departments;
• connections between research in their unit to broad questions, themes and/or societal problems; and
• ways to identify excellent research in their field using qualitative criteria as well as criteria that are more easily quantified, obvious, and applicable across many departments.
Question 2
Areas of Research Excellence

Please identify a small number (1 - 5) of areas of research that are excellent and/or distinctive in your unit. In each area please indicate the fraction of that research that is done through collaborations outside your unit so that we can identify cross-cutting efforts that involve collaboration with other units at UNM or external collaborators in other disciplines.
Question 3
Criteria for Evaluating Research

Please indicate how important each of the following criteria are in assessing research excellence in your unit. These criteria are grouped into categories for convenience, but these are not intended to be mutually exclusive. Please include criteria regardless of whether they are difficult to measure, quantify, or assess with an automated procedure.
Question 4
Additional Criteria for Evaluating Research

Please list any criteria for evaluating research that were not previously listed, and indicate how important they are in your unit (optional).
Next Steps

• Data gathering and interpretation is complex and is an ongoing process; key data are lacking
  • Eg. quantity, quality & impact of faculty publications

• Identify creative solutions to sustain outstanding research programs

• Create Objectives, Tactics and Metrics that allow further optimization of research excellence
  • Bridge the gap on data gathering for non-funded excellent research and scholarly activity
  • Identify pockets of excellence to facilitate growth of a vibrant interdisciplinary UNM research community
RSP Timeline

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June - July 2016
Members create and facilitate individual working groups to address components of the strategic plan

August - September 2016
Members synthesize and present information from the working groups to discuss the strategic planning process

October - December 2016
Committee develops draft strategic plan, objectives and metrics

January 2017
Committee seeks feedback from stakeholders on draft strategic plan, objectives and statistics

February 2017
Committee finalizes mission, vision, strategic goals, objectives and metrics

March 2017
UNM rolls out the Research strategic goals, objectives and metrics
Questions?

Research strategic planning process website:
RESEARCH.UNM.EDU/RESEARCH-STRATEGIC-PLAN

Contact Dr. Ricardo Maestas:
MAESTAS5@UNM.EDU
Appendices
Federal & State Governmental Relations Working Group

Make recommendations on how to improve the process of developing our legislative priorities and improve relationships with the national laboratories by reviewing current federal and state legislative initiatives and other relevant data and taking into account UNM’s strengths and research focus areas.

Chair: Karl Benedict, Associate Professor & Director of Research Data Services, University Libraries;

Associate Chair: Ivan Deutsch, Regents’ Professor, Physics & Astronomy

Members:

Shirley Baros, Director, Earth Data Analysis Center;

Melissa Binder, Associate Professor, Economics;

Meriah Heredia-Griego, Research Asst. Professor & Director, Center for Education Policy Research;

Anne Jakle, Associate Director, NM EPSCOR;

Anil Prinja, Professor & Chair, Nuclear Engineering
Human Capital Working Group

Develop a comprehensive plan to create and sustain a dynamic, diverse, and effective research work-force that includes ways in which to incentivize researchers with the ultimate goal of increasing sponsored research by examining relevant data on research faculty, staff and students.

Chair: Jeremy Edwards, Bioinformatics Director & Professor, Chemistry;
Associate Chair: Rebecca Blum-Martinez, Professor, Language Literacy Sociocultural Studies; Director of Latin American Programs in Education

Members:
Kateryna Artyushkova, Research Assoc Professor, Chemical and Biological Engineering; Associate Director, Center for Micro-Engineered Materials
April Davidson, Academic Ops Ofcr, School of Engineering;
Julia Fulghum, Special Assistant for Grad Ed, College of Arts & Sciences, Professor, Chemistry;
Tim Lowrey, Associate Dean, Graduate Studies, Professor, Biology;
Virginia Scharff, Associate Provost & Distinguished Professor, History;
Paul Schwoebel, Research Professor, Physics & Astronomy;
Kiyoko Simmons, Director, Center for Academic Excellence & Leadership Development
Emily Ballo, Strategic Support Manager, Office of the Vice President for Research
Infrastructure Working Group

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Make recommendations where changes can be made and propose new ways in which we can improve our infrastructure by examining current research infrastructure, including equipment, instruments, technology, library, and facilities and identifying barriers which have a negative impact on researchers.

Chair: Christopher Witt, Curator of Birds & Associate Professor, Biology;
Associate Chair: Theodore Jojola, Distinguished and Regents’ Professor, School of Arch and Planning
Members:
Steve Cabaniss, Professor & Chair, Chemistry;
Mary Jo Daniel, Faculty Research Development Director & Associate Professor, Office of the Vice President for Research;
Abhaya Datye, Distinguished Professor & Chair, Chemical and Biological Engineering;
Kathryn Jacobson, Associate Professor, ASM Organizational Studies;
Jennifer Kavka, Faculty Research Support Officer, College of Arts and Sciences;
Linda Petree, Director, Office of the Institutional Review Board;
Joel Straquadine, Mgr; Administrative Ops, Center for High Tech Materials CHTM;
Katie Witkiewitz, Associate Professor, Psychology, Center on Alcoholism, Substance Abuse, and Addictions;
Emily Ballo, Strategic Support Manager, Office of the Vice President for Research
Corporate Relations Taskforce

RESEARCH.UNM.EDU/RSP-INDUSTRIAL-RELATIONS

The Corporate Relations Task Force is to examine our current range of industrial interactions and propose new ways in which we can dramatically increase corporate-funded research. The Task Force is to develop mechanisms to assess our new industry based research initiatives.

Co-Chair: Gabriel López, Vice President for Research, The University of New Mexico

Co-Chair: Richard Larson, Executive Vice Chancellor for Health Sciences, Vice Chancellor for Research, Health Sciences Center

Members:

Steven Brueck, Emeritus & Distinguished Professor, Electrical and Computer Engineering, Distinguished Professor, Physics & Astronomy;

Jeremy Edwards, Bioinformatics Director & Professor, Chemistry;

Elizabeth Kuuttila, President & CEO, STC.UNM;

Jeff Norenberg, Professor & Director of Radiopharmaceutical Sciences, College of Pharmacy

Eric Prossnitz, Professor, Estrogen Biology;

Edl Schamiloglu, Distinguished Professor, Electrical and Computer Engineering;

Wendy Stires, Associate VP Principal Giving & Reg, UNM Foundation;

Angela Wandinger-Ness, Professor, Pathology
Main Campus Research-Health Sciences Center (MCR-HSC) Collaborations Working Group

The MCR-HSC Collaborations Working Group is to examine mechanisms that enable interdisciplinary research collaborations between main campus and HSC researchers, develop new approaches to increase those collaborations, and identify new collaborative funding opportunities that will benefit the research enterprise on both campuses.

Chair: Steve Graves, Professor, Chemical & Biological Engineering; Associate Director, Center for Biomedical Engineering
Associate Chair: Katie Witkiewitz, Associate Professor, Psychology, Center on Alcoholism, Substance Abuse, and Addictions

Members:
Vince Clark, Director, Psychology Clinical Neuroscience Center, Professor, Psychology
Robert Delcampo, Professor, ASM Organizational Studies
Jeremy Edwards, Bioinformatics Director & Professor, Chemistry
Corey Ford, Sr. Associate Dean for Research, UNM School of Medicine, Professor, Neurology
K.J. "Jim" Liu, Professor & Associate Dean for Research, Pharmaceutical Sciences
Mark Parshall, Professor & Interim Research Chair, College of Nursing
Barbara Rodriguez, Professor & Chair, Speech & Hearing
Irene Salinas, Assistant Professor, Biology