

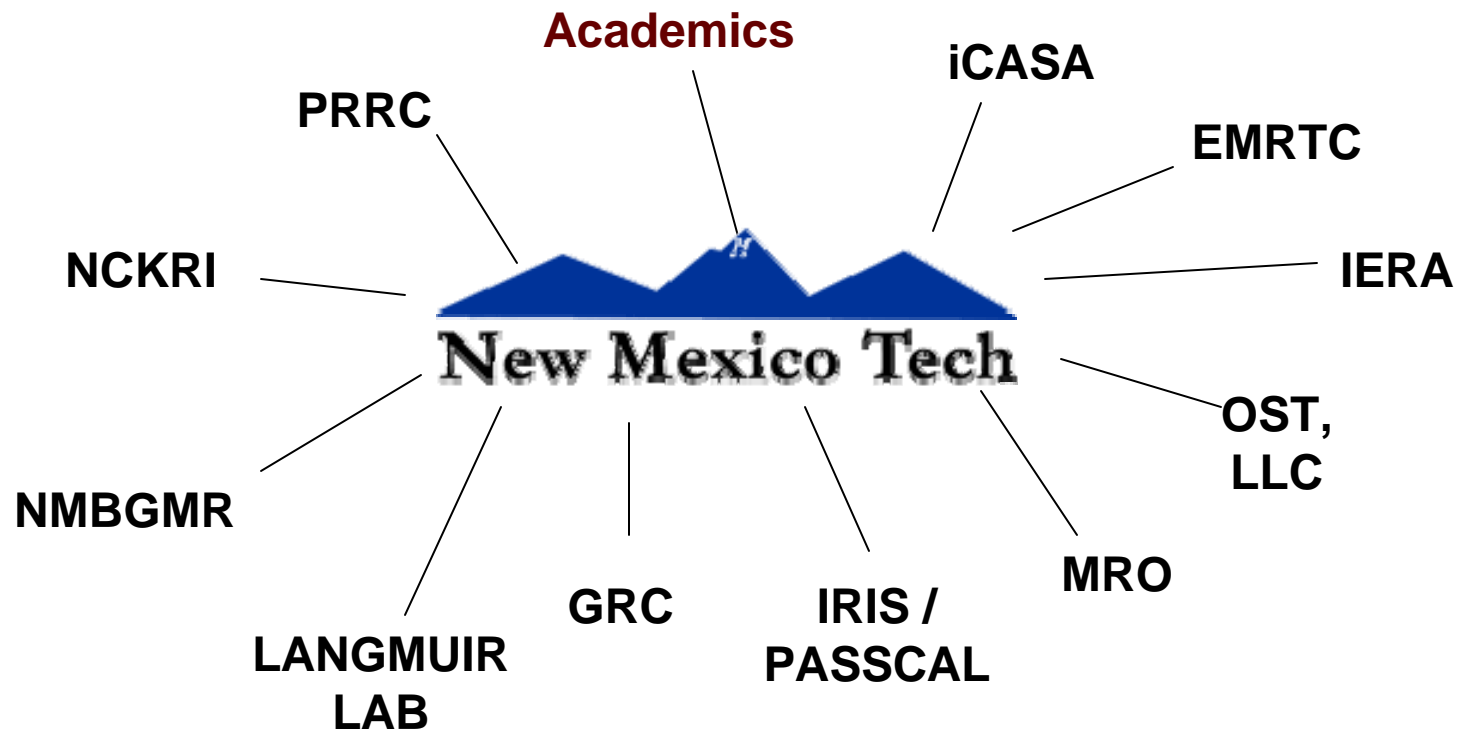
Research Roles At New Mexico Tech

A Presentation for the New Faculty Workshop on Research at Tech

April 16, 2008

By Dave Westpfahl and Stephany Moore

NM Tech is Research - everywhere you look



An Alphabet Soup of Research Entities

- ICASA = Institute for Complex Additive Systems Analysis
- EMRTC = Energetic Materials Research & Testing Center
- IERA = Institute for Engineering Research Applications
- OST = Optical Surface Technologies, LLC
- MRO = Magdalena Ridge Observatory
- IRIS = Incorporated Research Institutions for Seismology
- GRC = Geophysical Research Center
- NMBGMR = New Mexico Bureau of Geology and Mineral Resources
- NCKRI = National Cave and Karst Research Institute
- PRRC = Petroleum Recovery Research Center



Research Roles at Tech – The PI's Role

- Tech's small size means we do things a bit differently here.
- The PI can be more proactive at Tech in seeking research grants
- PIs can choose what kinds of research they want to do while they are here.



Research Roles at Tech – Tech's Role

- NM Tech acts as facilitator – Helps PIs submit proposals and get funded
- If you get a grant, Tech will set up your research account, get your project a home on campus, and provide students to help you get it done.



Where or How Do I....?

- New researchers may not know where to go or who to ask for help
- Two main help resources on campus:
 - For financial matters: The Restricted Funds Accounting Office
 - For physical, scientific, equipment, or administrative needs: The R&ED Division



The R&ED Division can provide:

- ❑ A physical location for your research project
- ❑ Transport or storage of equipment
- ❑ Machining or custom fabrication
- ❑ Electromechanical fabrication or repair
- ❑ Handling or disposal of hazardous waste
- ❑ Administrative assistance with policies, and procedures



The R&ED Division can also help with:

- Proposal review, routing, and electronic submission to federal agencies via Grants.gov
- Funding – startup and bridge
- Specialized research-related services
 - Human subjects research review board
 - Animal research review board



Specialized facilities and services available
through R&ED:

- Corporate Yard
- Machine Shop
- Instrument Room
- Hazardous Waste & Safety Office
- Research Services Office



Corporate Yard

- Supervisor: Steve Wallace
- Phone: -5855
- Services Include:
 - Surplus acquisition and long-distance transport of surplus equipment
 - Project setup and disassembly
 - Construction, carpentry, painting, and minor electrical work
 - Welding and various types of metal fabrication



Machine Shop

- Supervisor: Michael Chavez
- Phone: -5543
- Location: Workman 121
- Services Include:
 - Machining and custom fabrication
 - Welding
 - Physics 301L – Machine Tool Operation



Instrument Room

- Supervisor: Norton Euart
- Phone: -5512
- Location: Workman 165
- Services Include:
 - Electromechanical repair
 - Parts ordering and surplus equip. acquisition
 - Photocopiers, copy paper, and supplies
 - Scrounging



Hazardous Waste & Safety Office

- Supervisor: Curtis Verploegh
- Location: Workman 255
- Phone: -5842
 - Responsible for safe removal, storage, transport, and disposal of hazardous waste
 - Ensures compliance with federal safety regulations
 - Campus-wide Safety Manual and safety training
 - On call for Hazmat situations on campus



Research Services Office (RSO)

- Stephany Moore
- Phone: 835- 5690
- Location: Brown 111B
- RSO provides a wide variety of research-related services



The Research Services Office handles:

- Proposal routing and tracking
- Electronic submission of proposals to:
 - *NSF via FastLane*
 - *Other federal agencies via Grants.gov*
- Institutional Review Boards - Approves research involving humans or animals per federal regulations
- Institutional Research – Compiles student body statistics for federal, state, and in-house use



Electronic proposal submission

- ❑ Most federal agencies now require online submission
- ❑ Some agencies have their own submission portals (NSF, NASA, NIH)
- ❑ Most now use Grants.gov
- ❑ Specific procedures for each website/portal; Grants.gov is more labor-intensive than others



Suggestions from the RSO

- If your proposal must be submitted electronically, let me know ASAP.
- **READ the announcement or solicitation** – it reduces time and stress when you follow the directions right from the start. You don't want to revamp the proposal right before submission.



Institutional Review Board (IRB)

- RSO also serves as the Administrator for Tech's IRB
- The IRB is responsible for protecting the rights and welfare of human participants in research activities conducted at New Mexico Tech



What the IRB does

- The Institutional Review Board reviews **all** research projects that use human beings. The IRB must make sure that these human subjects are treated ethically and humanely during their participation in such research projects.



Federal regulations and HSR

- ALL human subjects research (HSR) conducted or funded by a Federal Department or Agency must be governed by an Institutional Review Board. (CFR Section 46.101)
- Federal Policy (Common Rule, Section 103a) states that "awardees and their collaborating institutions become 'engaged' in human subjects research whenever their employees or agents (i) intervene or interact with living individuals for research purposes; or (ii) obtain, release, or access individually identifiable private information for research purposes."



IRB Web Pages

- Contain more information about Tech's IRB, as well as downloadable Handbook and forms
- www.nmt.edu/~red/IRB/index.html



Institutional Research

- Generate demographics on Tech's student body
- Most commonly requested information:
 - Overall Headcount
 - Class Level
 - Gender / Ethnicity
 - Residency
 - Major
 - Retention
 - Graduation Rates



Inst. Research Web Pages

- Basic demographic information is available online for use in proposals, etc.
- www.nmt.edu/~red/IR/index.html



RSO Contact information

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hour)

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