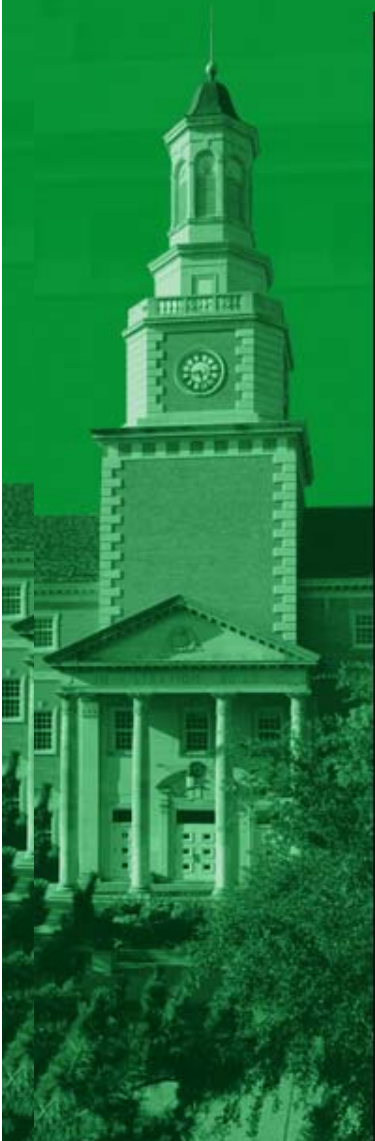


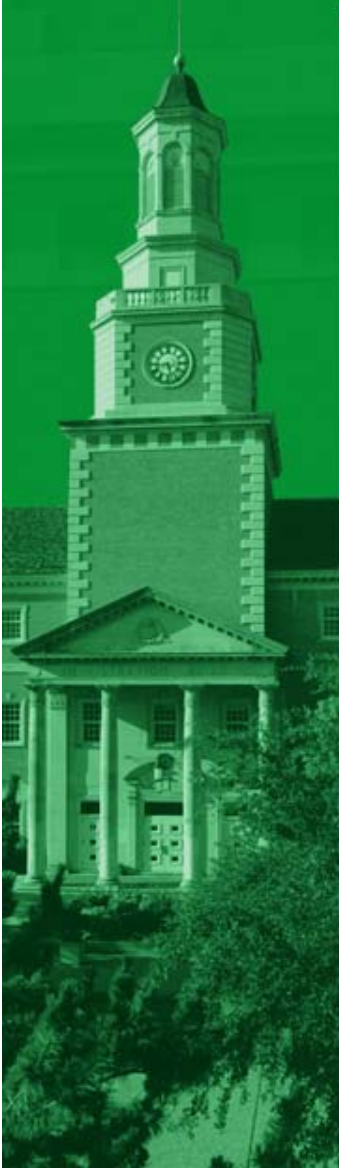
“Emerging Research Universities”

UNIVERSITY OF NORTH TEXAS

Gretchen M. Bataille

July 23, 2008



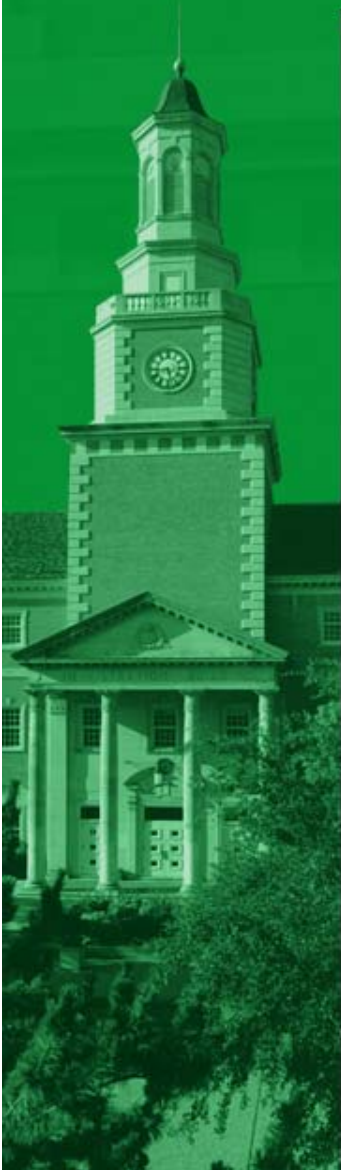


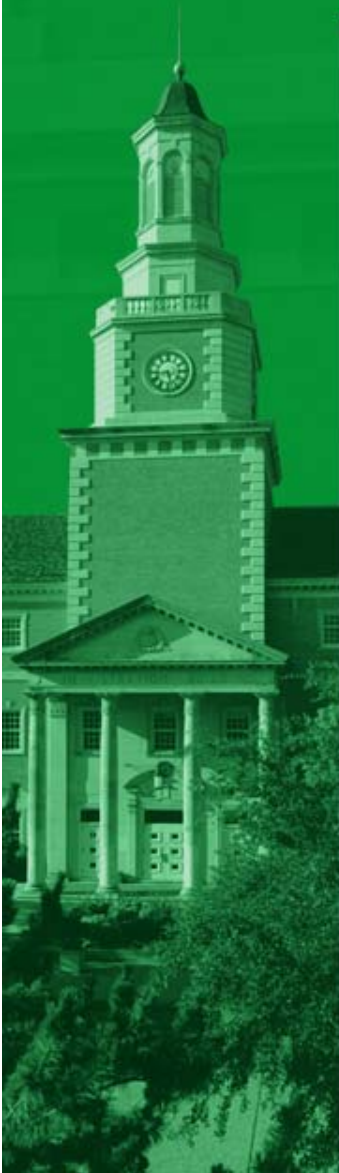
“The need for leaders to solve the complex problems of the modern world requires a new paradigm for the research university itself - one in which industry, academe, and governments work together in effective partnership.”

- President Emeritus of MIT Charles M. Vest, "[MIT: The Path to Our Future](#)"

The Role of a Research University

- Creation of new knowledge and its dissemination for a better quality of life is the critical mission of a research university.
- At UNT, we strive to accomplish this through research, scholarship, and creative activities that engage faculty, research scientists, graduate and undergraduate students, and external collaborative partners to their fullest potential.



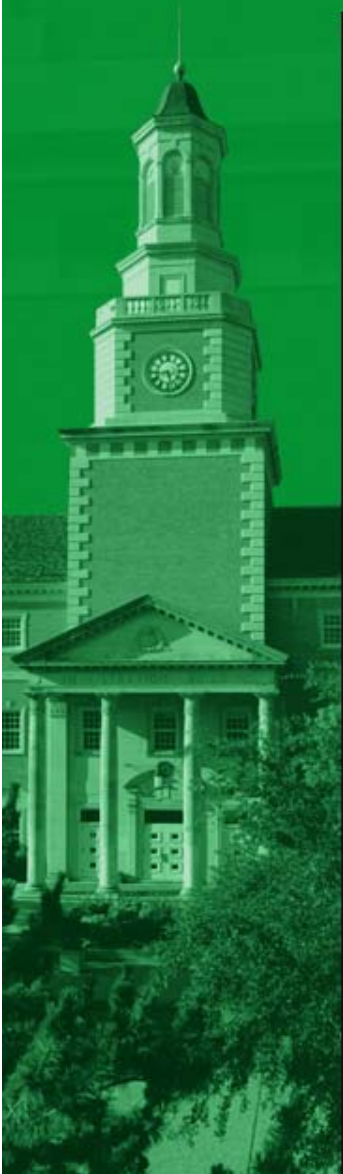


UNT

- Founded in 1890 as a Normal School
- Fully reaffirmed accreditation by SACS – Dec 2006
- 99 bachelor's, 104 master's, 49 doctoral programs
- 34,153 students in fall of 2007
- Recognized as one of “America’s 100 Best College Buys”
- Carnegie Research University/High Research Activity (RU/H)
- Top Ten Nationally for Transfer Students
- Top 50 nationally for graduating Hispanic and African American Students
- Top Distance Education Provider in Texas among 4-year Institutions
- Produces almost 200 doctoral degrees each year

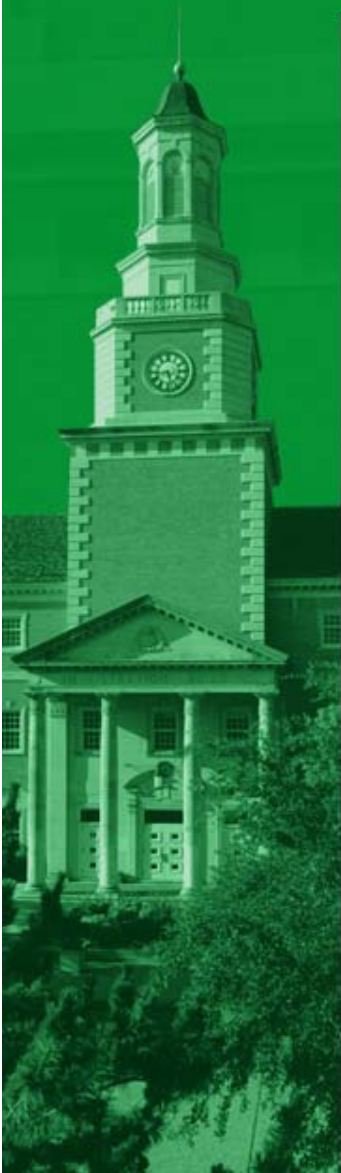
UNT's Key Research Areas

- Traditional Areas of Strength:
 - Music
 - Visual Arts and Design
 - Education and Learning Technologies
- Emerging Areas of Strength:
 - Bio/Nano Devices and Systems
 - Computational Chemistry
 - Materials Science
 - Renewable Energy
 - Human Health and Sustainable Environment
 - Plant Biology
 - Developmental Physiology and Genetics
 - Technology and the Arts

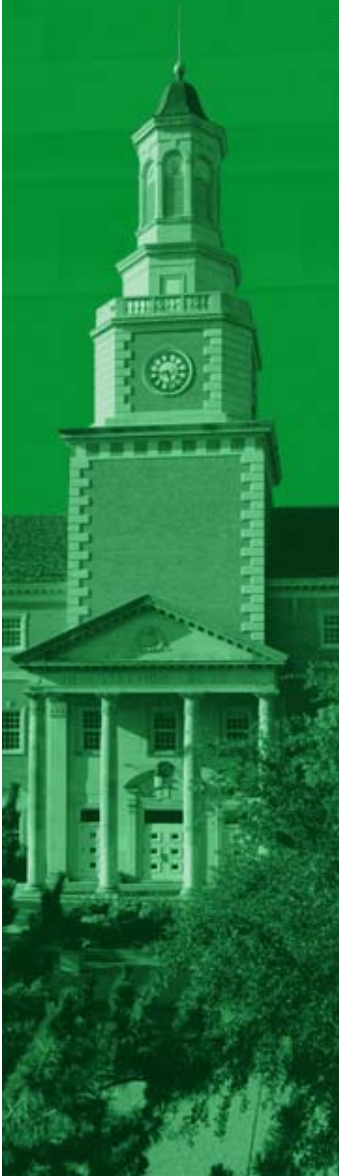
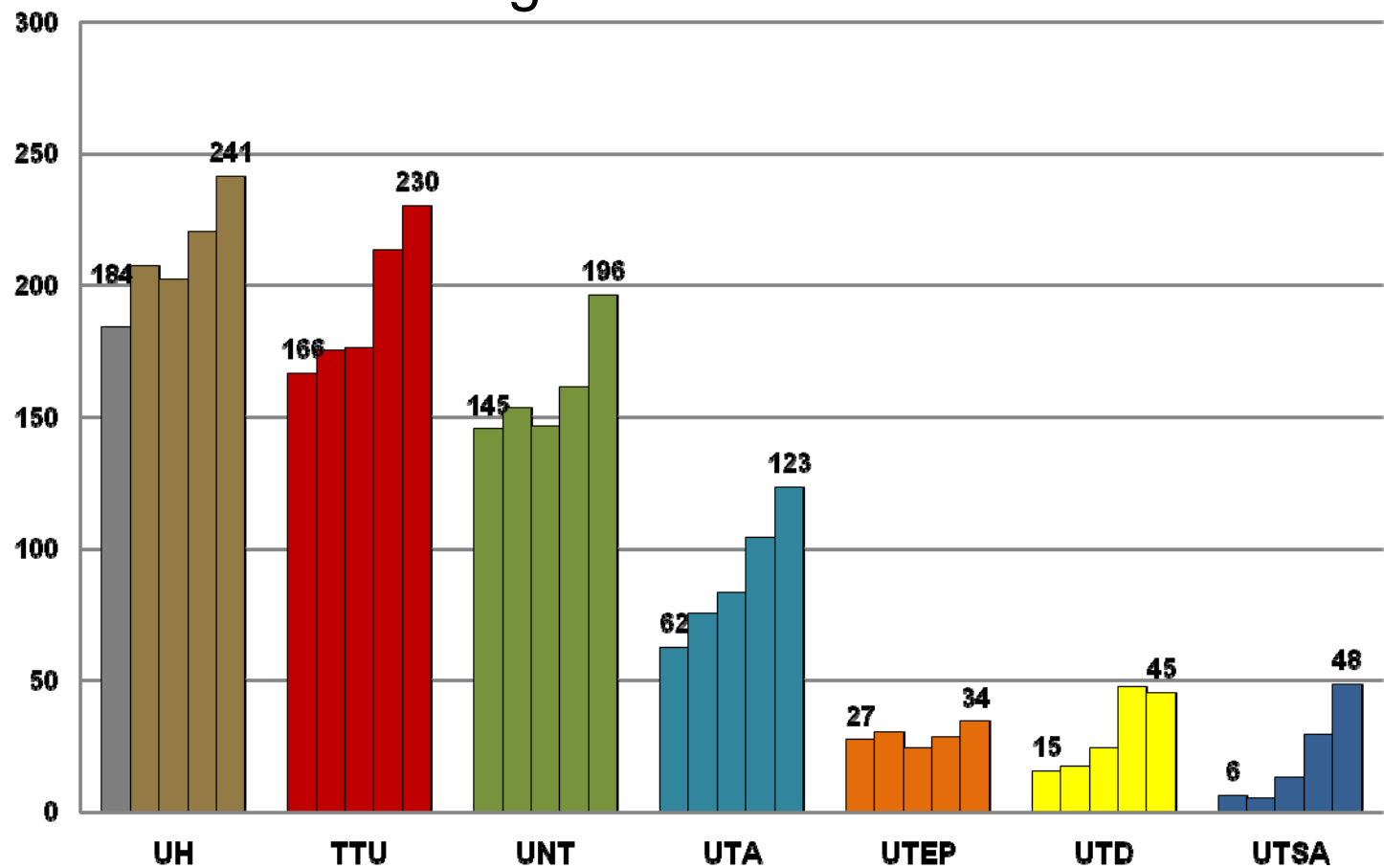


UNT Discovery Park

- 285 Acres
- 4.2 Miles North of Campus
- College of Engineering
 - Center for Advanced Research and Technology (CART)
 - NUCONSTEEL
 - PACCAR, Inc.
- Computing and Information Technology Center
- School of Library and Information Sciences
- Learning Technologies Department
- Development of Discovery Park—one of four top priorities for the Denton Economic Development Partnership
- Advisory Council for the Park

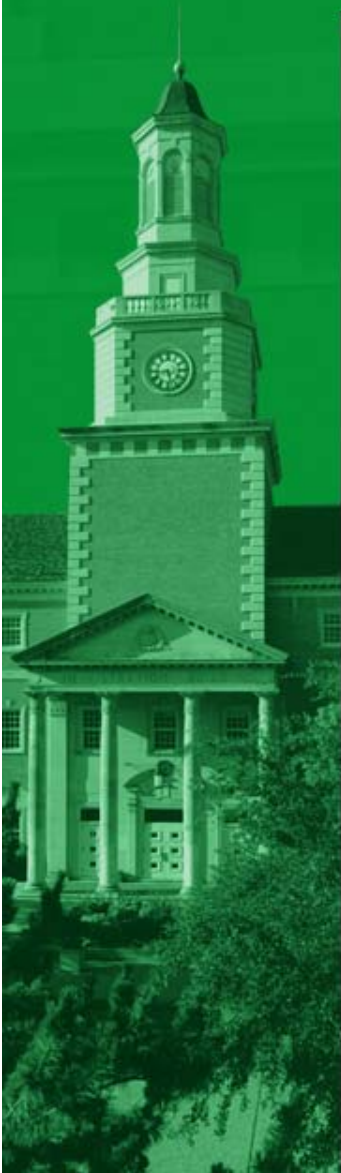


Emerging Research Institutions Doctoral Degrees Awarded 2002-2007



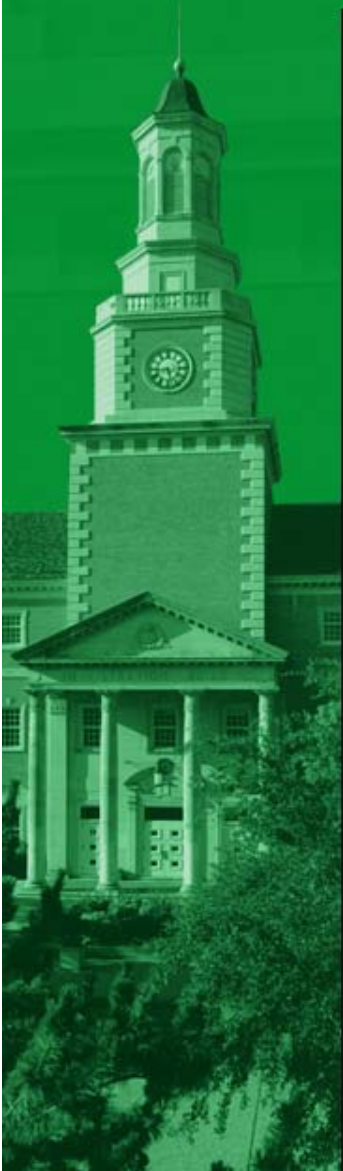
UNT and Other Important State Goals

- UNT aspires to emerge as a major research university that is nationally and internationally recognized for its research in the fine arts to technology, life science to human health, and music to entrepreneurship.
- UNT is accomplishing these goals without sacrificing other important state goals, such as those identified in *Closing the Gaps*.



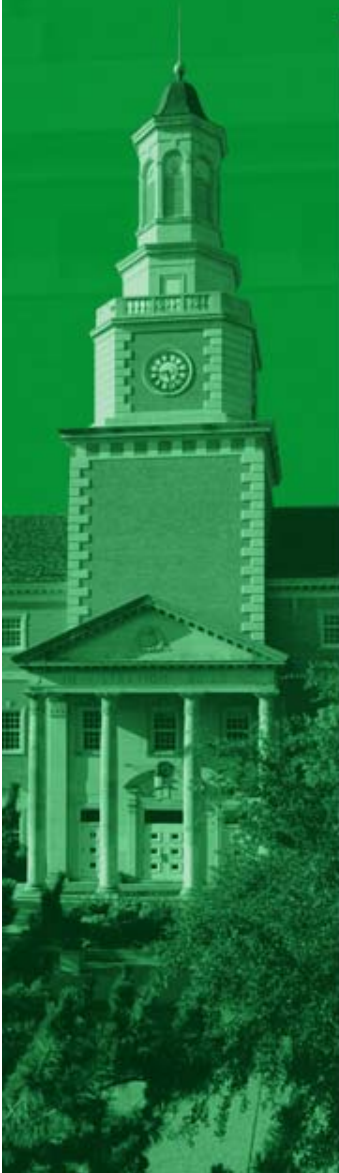
Carnegie Research Universities Classification

- The Carnegie Foundation for the Advancement of Teaching classifies major research universities (those that award at least 20 doctoral degrees a year) in three categories:
 - RU/VH: Research Universities (very high research activity)
 - RU/H: Research Universities (high research activity)
 - DRU: Doctoral/Research Universities
- UNT is one of the six public *Carnegie High Research Activity* Universities in Texas and awarded almost 200 doctoral degrees in 2007.



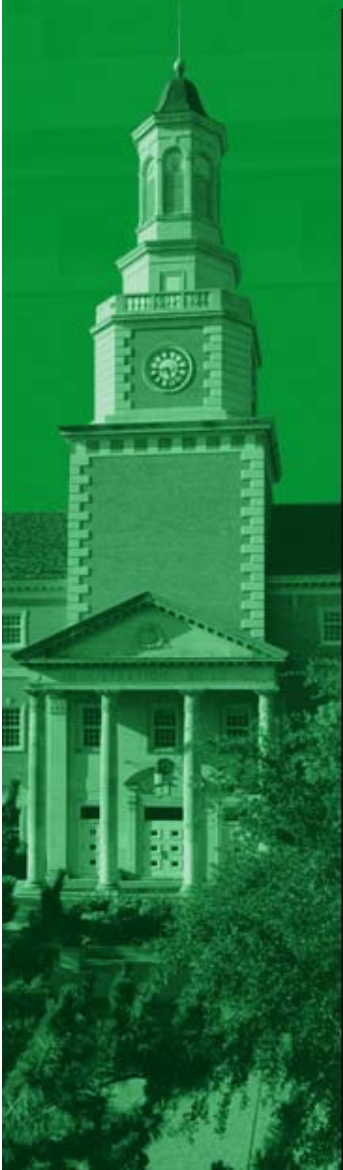
Strategies to Achieve Increased Research Funding

- Hire highly accomplished faculty, including senior faculty members
- Significantly expand research facilities
- Increase funding for research equipment and research clusters
- Increase the number of competitive graduate stipends and fellowships
- Develop Discovery Park
- Improve Faculty-Student Ratio



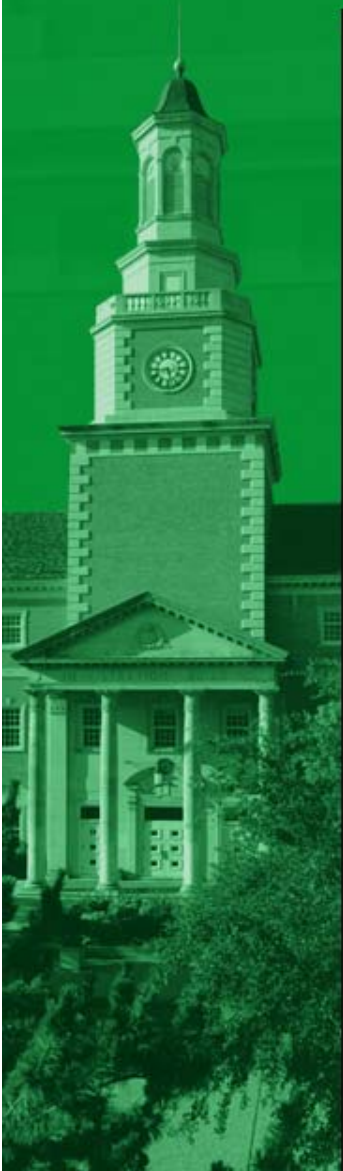
Proposed Criteria for “Tier One” Status

- Research, instructional, and training grants
- Percentage of faculty involved in funded research (federal, state and industry) and creative activities
- Number of doctoral programs
- Annual doctoral production
- Growth in endowment and private contributions
- Contribution to workforce development
- Contribution to economic development of the region and the state
- International outreach (globalization of education)



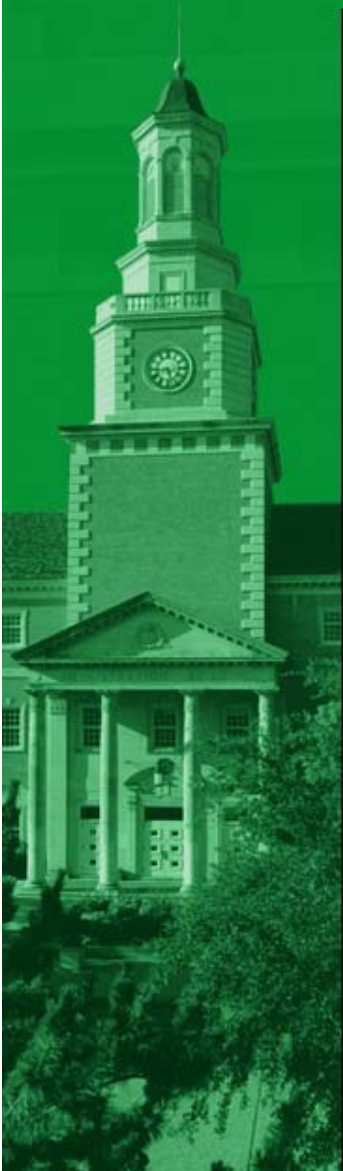
UNT's Competitive Advantages for Achieving "Tier One" Status

- One of the most comprehensive universities of the state
- Large number of doctoral programs and doctoral production of almost 200 per year
- Strong contribution to workforce development in DFW
- Growth in Total Endowment (almost 250% growth from 2002-2007)
- Extensive international reach
- UNT Discovery Park



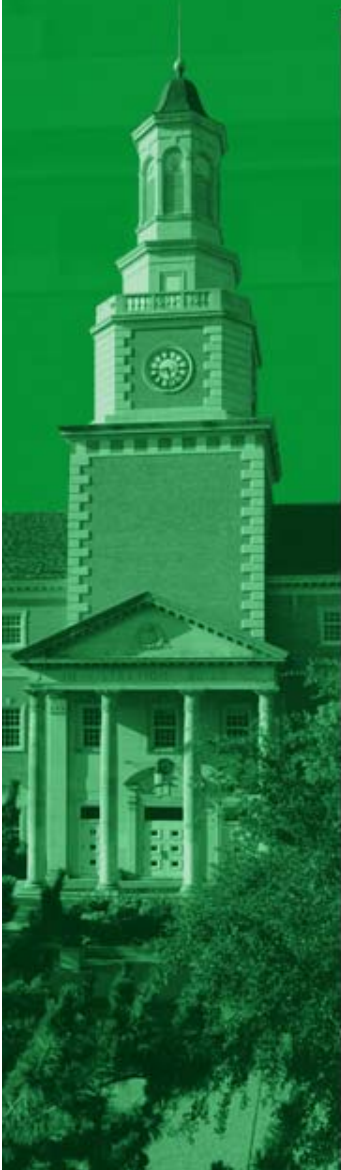
Recommendations for State Assistance in Developing More “Tier One” Universities

- Increase Research Incentive Funding
- Match Private Funds for Endowed Faculty Positions
- Match Private Funds for Doctoral Fellowships



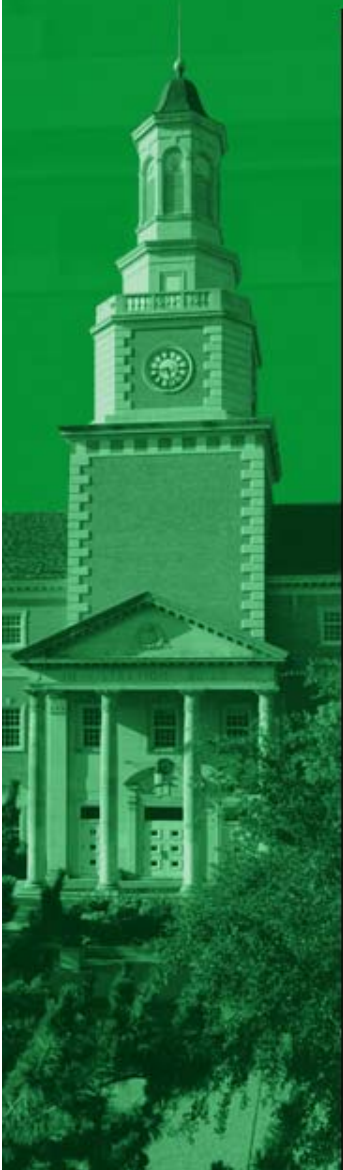
Increase Research Incentive Funding

- Research Development Fund
 - Appropriations for the Seven Emerging Research Universities averaged \$4.5M for FY06-07 Biennium
 - Increase this amount by \$100M
- New research incentive funds focused on discovery, real world applications, and commercialization of State needs:
 - Nanotechnology
 - Modeling and Simulation of Materials
 - Plant Biology
 - Information Technology and Web Security
 - Computational Chemistry



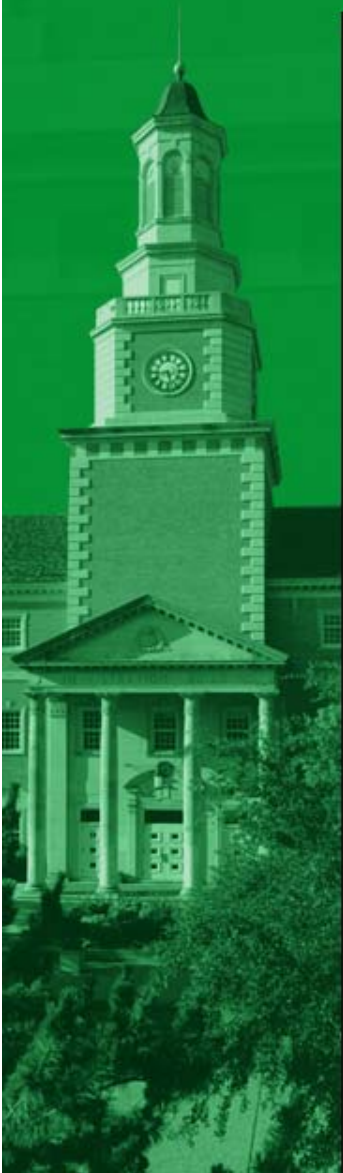
Endowed Faculty Chair Matching Funds

- Create a 1:1 Endowed Chair Matching Fund Program
- Emerging Research Universities: Raise \$750,000 and the State adds \$750,000 to support an endowed chair
- Proposed Guidelines:
 - No more than 5 awards to any single university during a biennium.
 - Total gift must be given; pledges and bequests don't count.
 - Gift must be in cash or in securities, stock, etc. that can be liquidated.
 - The endowed chair position must be advertised as soon as the match is received and filled as soon as possible.



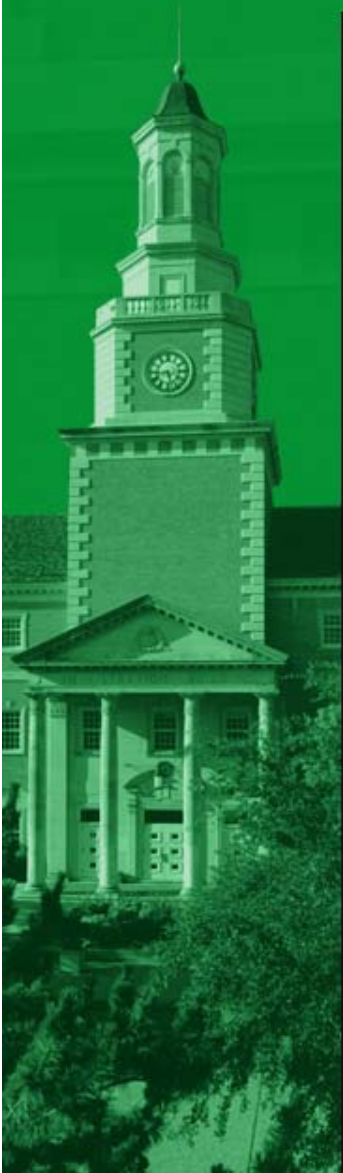
Doctoral Fellowship Matching Fund

- Recruitment of senior faculty researchers requires recruitment of top doctoral students.
- Successful research programs require doctoral-level research assistants.
- Success in recruiting the best and the brightest of doctoral students requires competitive levels of funding for multiple years.
- Texas must compete in a national market at the doctoral level and we need the resources to compete against other states.
- **Therefore, Texas should develop a matching fund program for Doctoral Fellowships.**



Doctoral Fellowship Matching Fund

- Create a 1:1 Doctoral Fellowship Matching Fund Program
- Proposed Doctoral Fellowship Program for Emerging Research Universities: Raise \$250,000 and the State adds \$250,000 to support an endowed fellowship.
- Proposed Guidelines:
 - No more than 8 awards to any single university during a biennium.
 - Total gift must be given; pledges and bequests don't count.
 - Gift must be in cash or in securities, stock, etc. that can be liquidated.



We've accomplished a lot.

We've more to do.

UNT is on the move.

**WE SEEK YOUR SUPPORT AND
CONTINUED PARTNERSHIP.**

