

Executive Summary

Survey of Research and Development Expenditures At Universities and Colleges

Through National Science Foundation Fiscal Year 2004 to 2008



Texas A&M University
A Unique American Institution

Office of Institutional Studies and Planning
July 2009

Comparison of Texas A&M with Peer Institutions

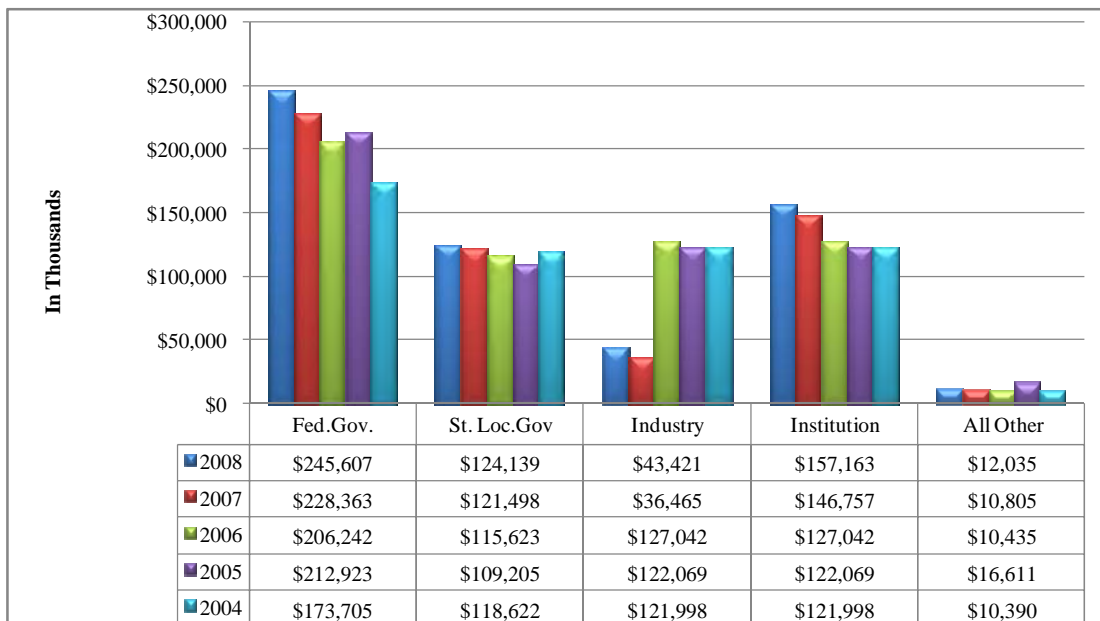
The National Science Foundation (NSF) Survey of Research and Development Expenditures at Universities and Colleges (Academic R&D Expenditures Survey) is the primary source of information on budgeted research and development (R&D) expenditures within academic institutions in the United States and outlying areas. Conducted annually since FY 1972, the survey collects information on R&D expenditures by source of funds as well as by academic field. The results of the survey are primarily used to assess trends in R&D expenditures across the fields of science and engineering (S&E). This information is used extensively for federal, state, and academic planners who make decisions on future R&D funding priorities.

Each year, more than 600 institutions of higher education receive the Academic R&D Expenditures Survey. These institutions had been identified as granting a bachelor's degree or higher in S&E fields and expending at least \$150,000 in separately budgeted R&D.

This report presents both current and trend data. Most trend data cover FY 2004 to FY 2008. Expenditures are compared between Texas A&M University and our Vision 2020 peer universities in terms of funding sources and academic fields of study. Dollar amounts cited are absolute value of R&D dollars to academic institutions without any adjustments (such as inflation index).

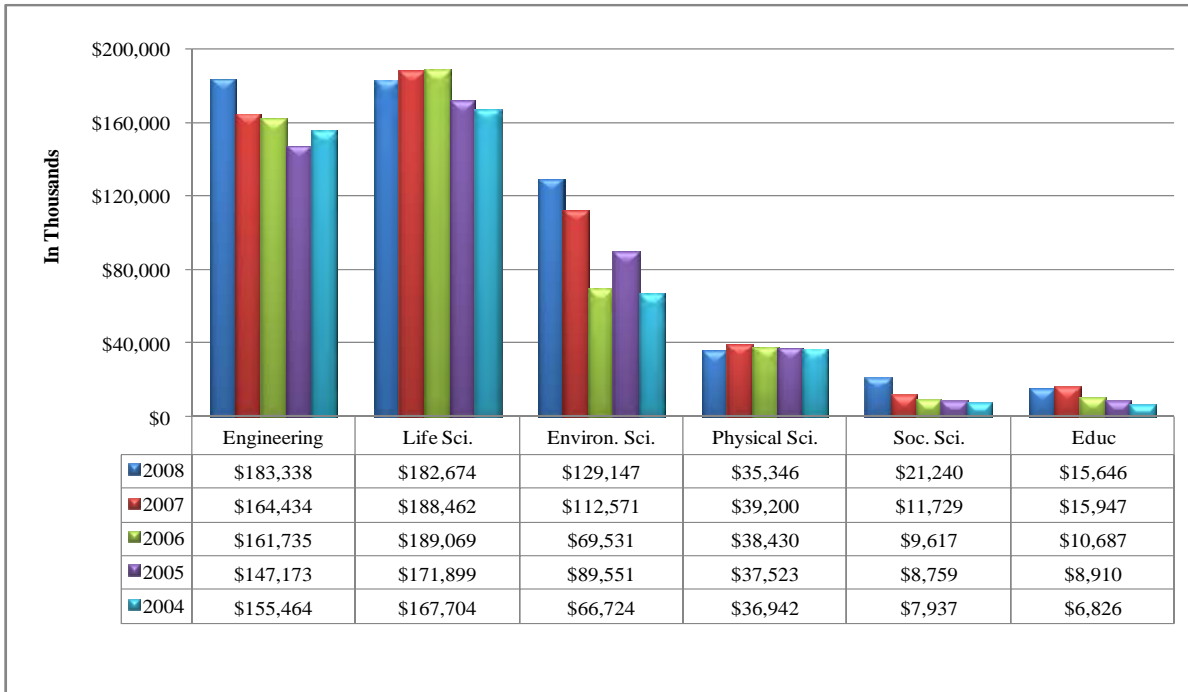
1) In 2008 Texas A&M University spent a total of \$582,365,000 for R&D, of which \$245,607,000 (42.2%) was funded by the federal government. Federally-financed absolute dollars increased by 41.4% from five years before. (Figure 1).

Figure 1. Texas A&M R&D by Funding Sources



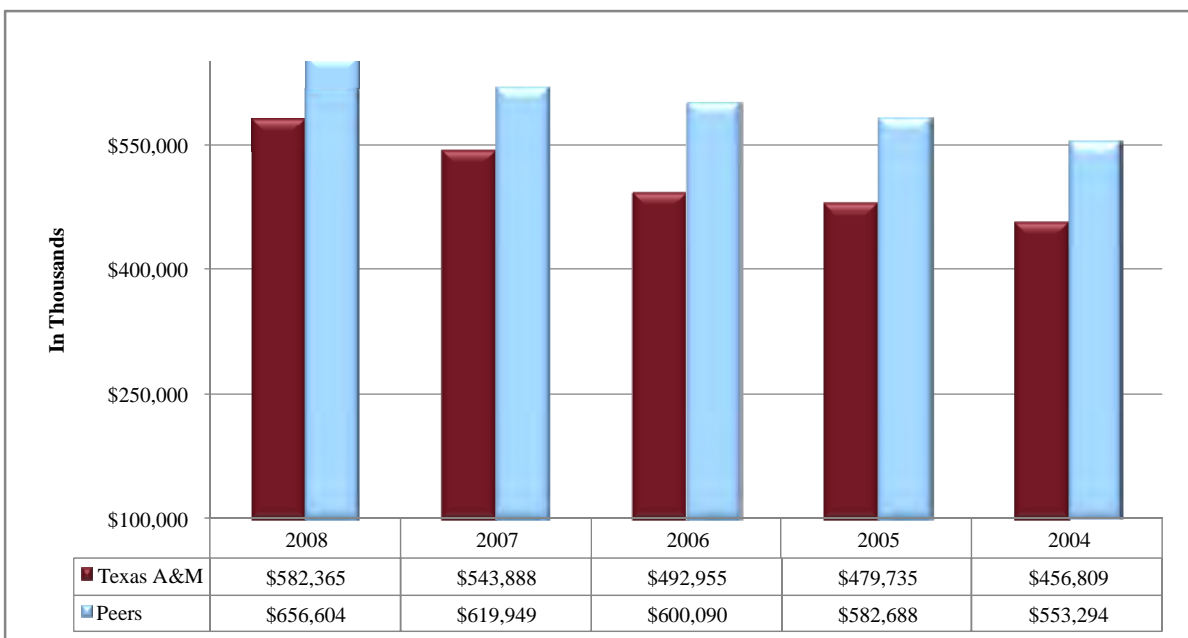
2) In 2008 Engineering and Life Sciences performed \$366,012,000 of R&D which accounted for 62.8% of all R&D performed at Texas A&M University. There is also a significant increase in the Social Sciences R&D dollars in FY 2008 (81.1% increase from FY 2007, Figure 2).

Figure 2. Texas A&M over \$10 Million of R&D by Field of Study



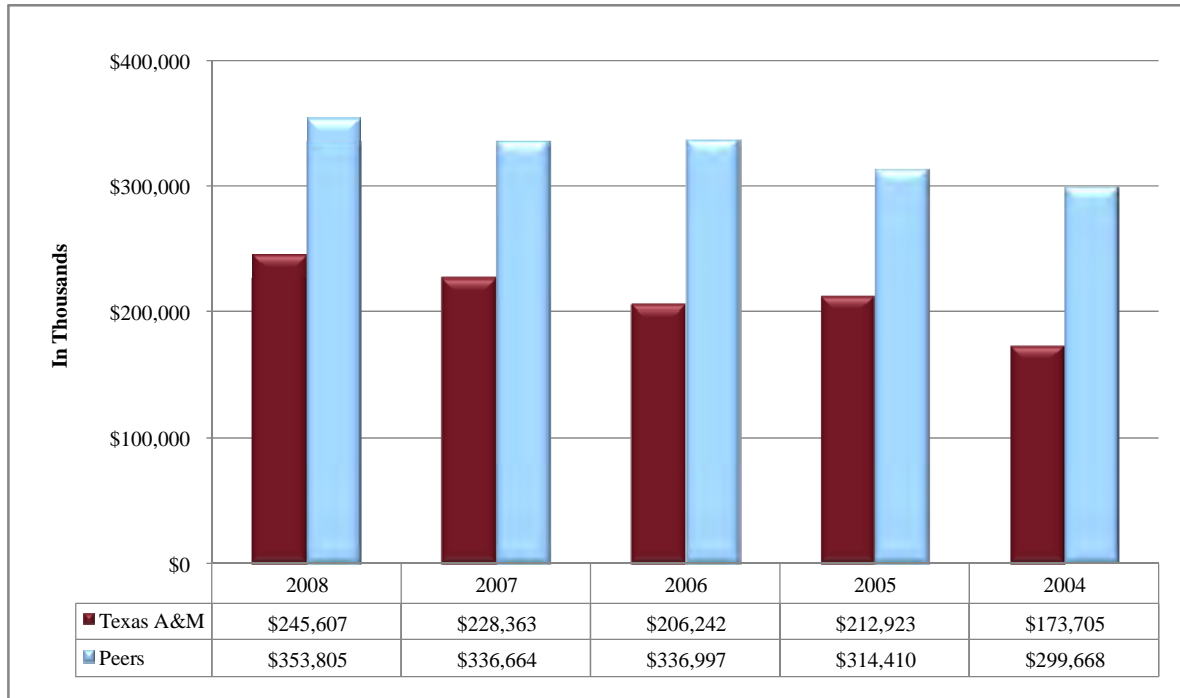
3) From 2004 to 2008, Texas A&M total R&D dollars from all sources increased by 27.5%, while our Vision 2020 peer universities grew by an average of 18.7% (Figure 3) during the same period.

Figure 3. Total R&D Comparison



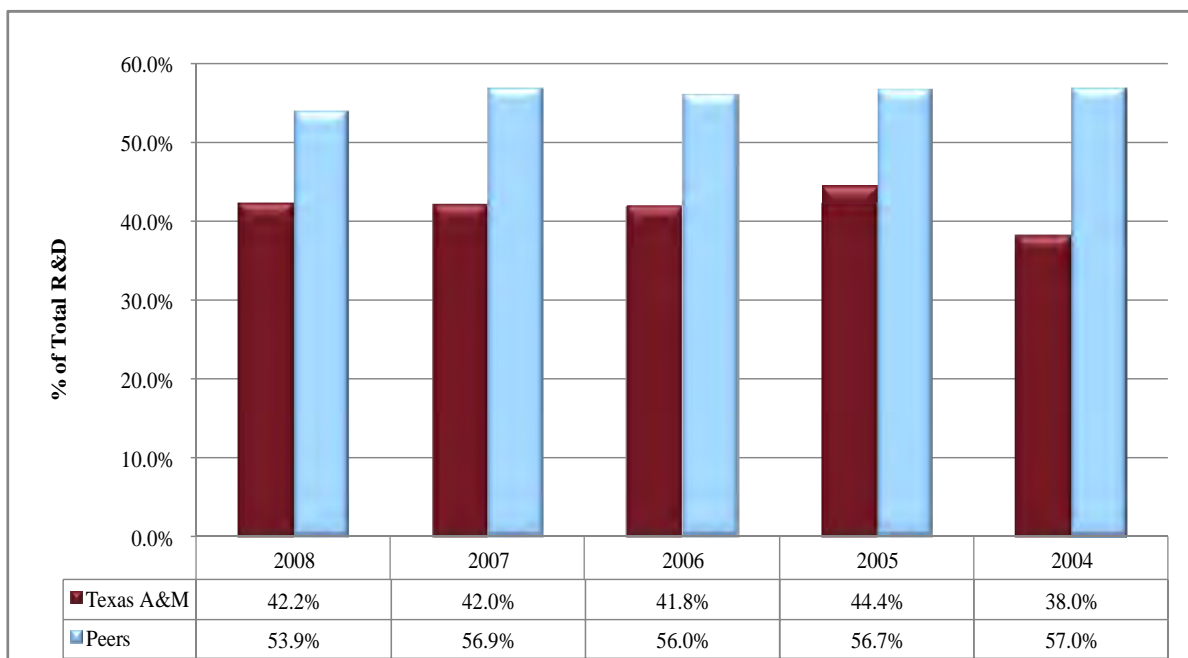
4) The federally-funded R&D dollars for Texas A&M increased by 41.4% in the five-year period. Our Vision 2020 peers, at the same time, increased by 18.1% (Figure 4).

Figure 4. Federally-Funded R&D Comparison



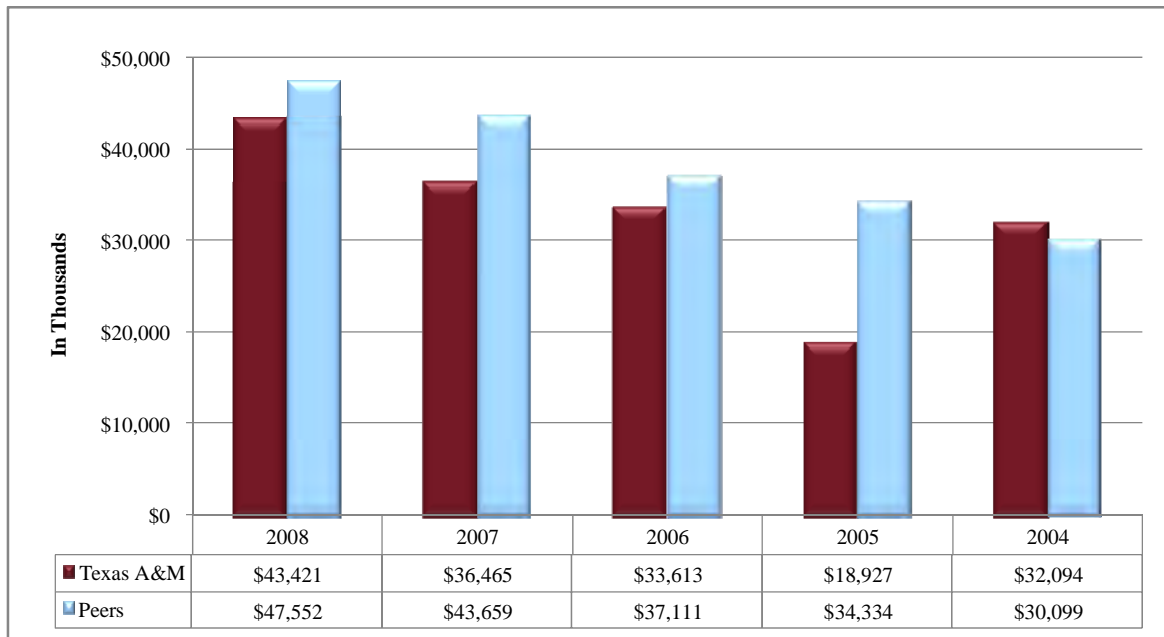
5) Texas A&M is lower than our Vision 2020 peers in terms of the proportion of federally-funded R&D dollars to the total R&D (42.2% Vs. 53.9% for FY 2008, Figure 5).

Figure 5. Percent of Federally-funded R&D Dollars to Total R&D



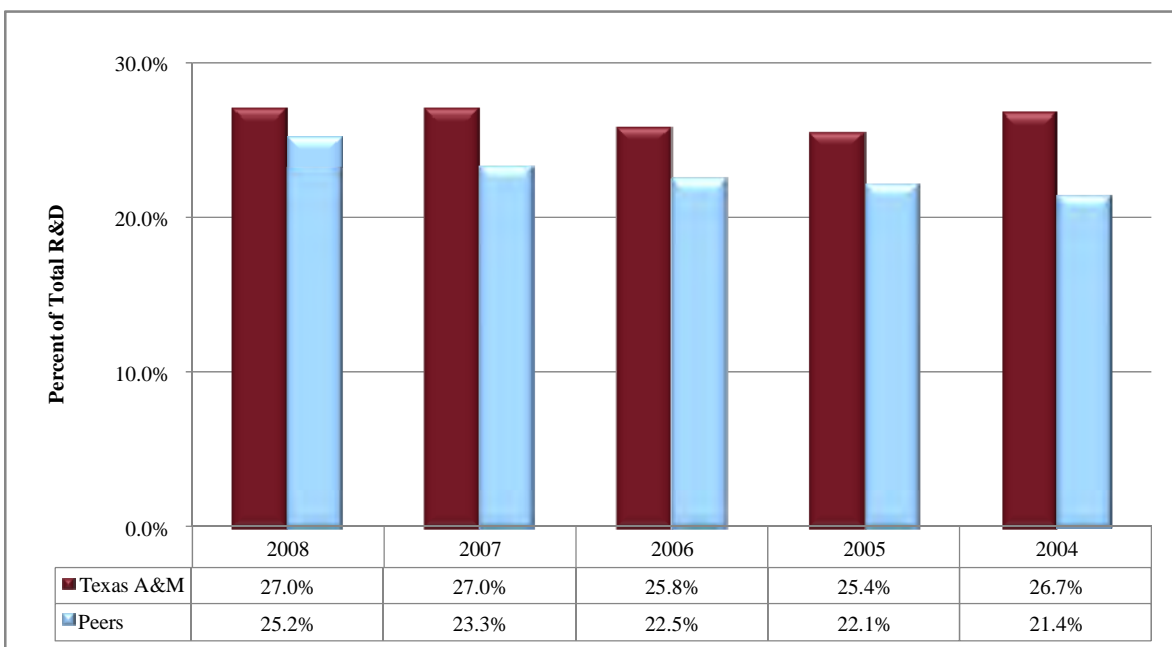
6) One of the indicators of strong ties between industry and universities is reflected in the R&D dollars from industries. While **Texas A&M performance of industry-funded R&D dollars has increased 35.3%** in absolute dollars since 2004, **the Vision 2020 peers recorded an average of 57.9% increase** in R&D dollars financed by industries from five years ago (Figure 6).

Figure 6. Industry-Funded R&D Comparison



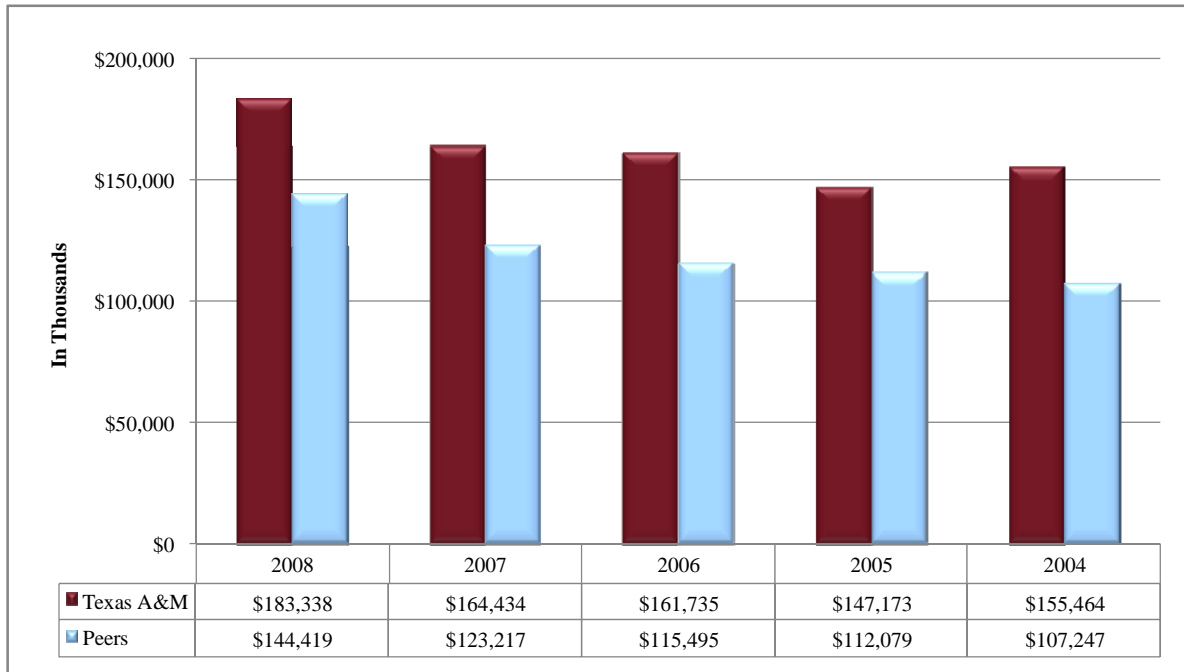
7) Institutions invest a large amount of money in R&D. **At Texas A&M, for each \$100 spent on R&D in 2008, about \$27.00 was funded by the University.** The comparable number for our Vision 2020 peers was \$25.20 for every \$100 (Figure 7).

Figure 7. Percent of Institutionally-Funded R&D Dollars to Total R&D



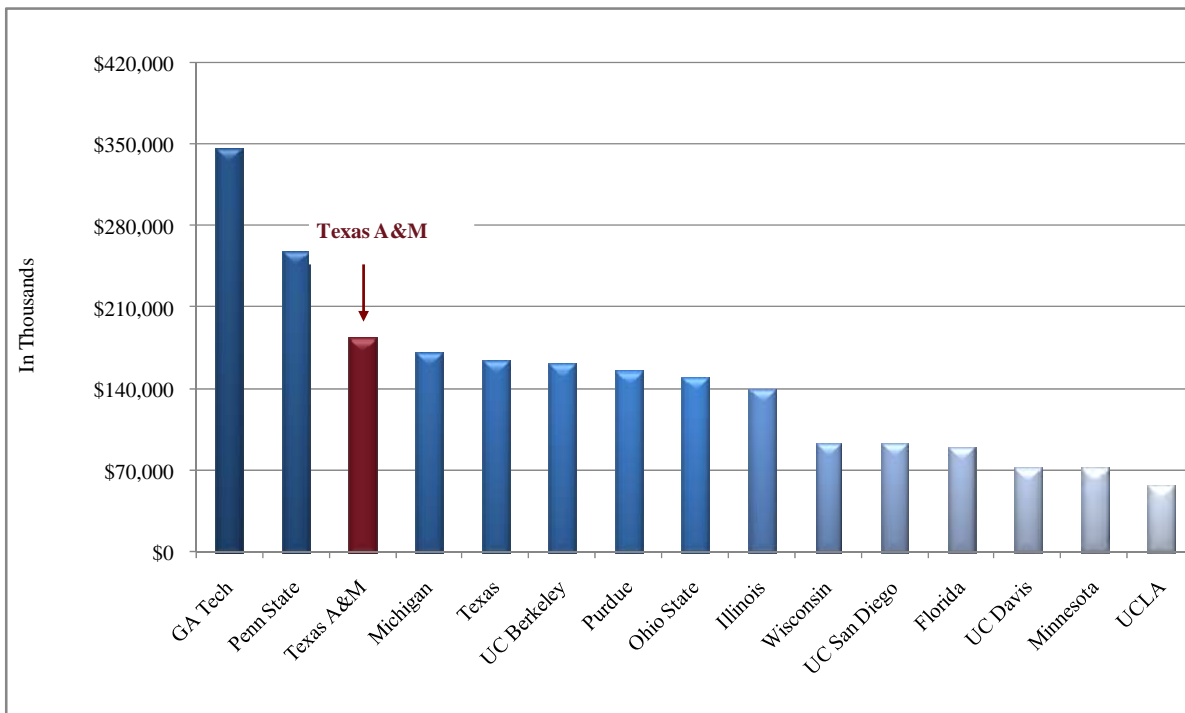
8) **Texas A&M, over the years, received a significantly higher amount of R&D dollars in Engineering** (\$183,338,000 in 2008) compared with the average of our Vision 2020 peers (\$144,419,000 in 2008, Figure 8).

Figure 8. Engineering R&D Comparison



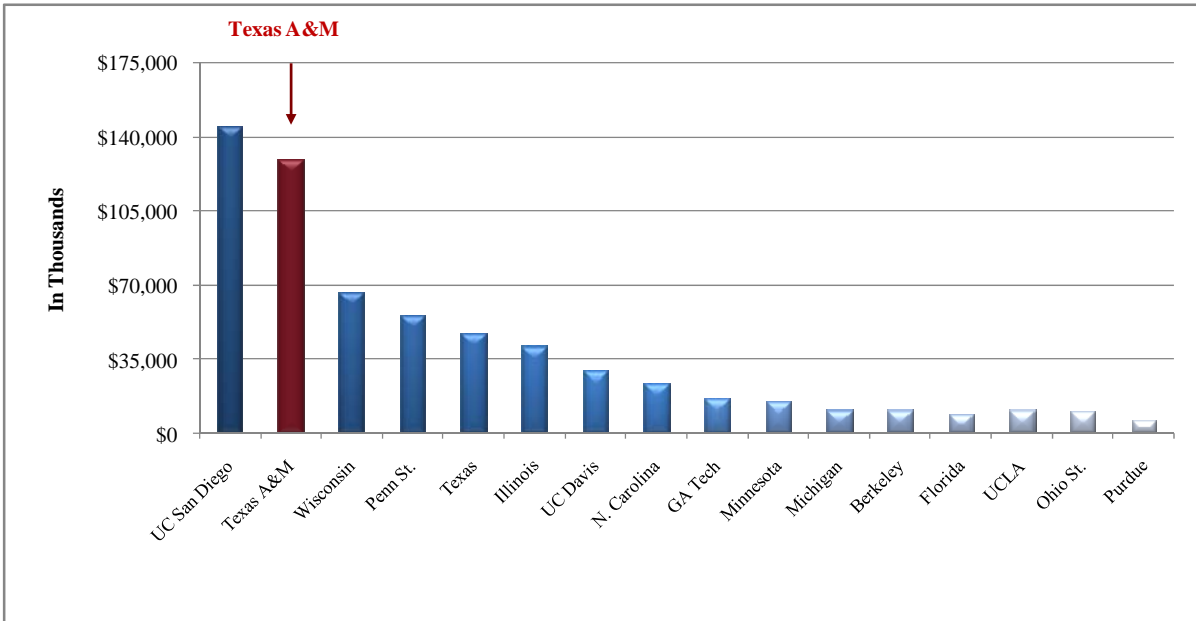
9) **Among all the 16 Vision 2020 institutions, Texas A&M ranked third in receiving 2008 R&D dollars in Engineering** from all sources. (Figure 9).

Figure 9. 2008 R&D in Engineering



10) Among all the sixteen Vision 2020 institutions, **Texas A&M ranked second in receiving 2008 R&D dollars in Environmental Sciences** from all sources. (Figure 10).

Figure 10. 2008 R&D in Environmental Sciences



Vision 2020 Peer Universities

University of Texas
University of California Berkeley
University of Michigan
University of North Carolina
University of California Los Angeles
University of California San Diego
University of Wisconsin
University of Florida
Georgia Institute of Technology
University of Illinois
University of Minnesota
Ohio State University
Pennsylvania State University
Purdue University
University of California Davis