ORE Vision

• Foster excellence in research, scholarship and creative activity across all disciplines
• Promote transdisciplinary discovery
• Facilitate external partnerships to enhance the discovery enterprise and its impact to society
Our Common Goal

Work toward becoming a Top 25 research university while assisting our faculty and students as they seek continued success in their careers.
## Current Top 25 Research-Related Metrics and Goals

### In Millions of Dollars

<table>
<thead>
<tr>
<th>Existing Primary Metric</th>
<th>Original Goal 2010</th>
<th>Current Marker 2013</th>
<th>Original Goal 2015</th>
<th>Original Goal 2020</th>
<th>Possible New Goal for &gt;2020</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FEDERAL Research Expenditures</strong></td>
<td>70</td>
<td>118</td>
<td>105</td>
<td>182</td>
<td>225</td>
</tr>
<tr>
<td><strong>TOTAL Research Expenditures</strong></td>
<td>165</td>
<td>193</td>
<td>247</td>
<td>427</td>
<td>450</td>
</tr>
</tbody>
</table>

Based on NSF-HERD expenditures
## UT Ranks 8th in Nation for National Endowment for the Humanities Fellowships

<table>
<thead>
<tr>
<th>NEH Fellowships Top Institutions</th>
<th>Total 2004-2013</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Notre Dame</td>
<td>33</td>
<td>1</td>
</tr>
<tr>
<td>Ohio State University, Main Campus</td>
<td>24</td>
<td>2</td>
</tr>
<tr>
<td>University of Michigan, Ann Arbor</td>
<td>21</td>
<td>3</td>
</tr>
<tr>
<td>Princeton University</td>
<td>16</td>
<td>4</td>
</tr>
<tr>
<td>Harvard University</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>University of Texas, Austin</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>Washington University</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>University of Chicago</td>
<td>13</td>
<td>8</td>
</tr>
<tr>
<td><strong>University of Tennessee, Knoxville</strong></td>
<td><strong>13</strong></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td>Middlebury College</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>New York University</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>Rutgers University, New Brunswick</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>University of Kansas, Lawrence</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>University of North Carolina, Chapel Hill</td>
<td>11</td>
<td>10</td>
</tr>
</tbody>
</table>

Source: NEH Office of Planning and Budget
Colleges served by ORE

Architecture and Design
- Living Light House

Arts and Sciences
- Anthropology: Detecting Clandestine Gravesites

Business
- TN Workmen’s Comp Data for Injury Surveillance

Communication & Information
- Center for Information and Communication Studies
- Law
- Fulbright Fellowships

Education (EHHS)
- Department of Nutrition

Engineering
- CURENT Project

Social Work
- Center for Sport-Peace-Society
Supporting the undergraduate discovery process across all disciplines through centralized programs.

- Undergraduate Research Internships
- The Exhibition of Undergraduate Research and Creative Achievement (EURēCA)
- Research Week
- Discovery Day
- EXPLORE database
- Summer Research Scholars
- Posters at the Capitol
- International Conference on Undergraduate Research
- Pursuit - Undergraduate Research Journal
- Undergraduate Research Students’ Association
Community Outreach & Engagement

Providing leadership and coordination for enhancing UT’s community-campus partnerships for research, teaching, and outreach.

- Weekly dissemination of funding, publication and presentation opportunities that specifically support community-engaged scholarship
- Sponsored research support through other ORE teams and an actively curated online toolkit
- Annual grant program, national C.P. Magrath competition, speaker series, and other strategic initiatives
- Helping to address and enhance Broader Impact Statements
- Carnegie Community Engagement Advisory Committee
- Earned the 2015 Carnegie Community Engagement Classification in partnership with the UT Institute of Agriculture

Elizabeth Burman, Director
Communications

Enhancing the creation and distribution of research stories, data, and accomplishments to both internal and external stakeholders.

• Share information within the Office of Research & Engagement to enable a holistic approach to serving our research community.

• Work with communications officers on campus to create and promote articles that support the research agenda of the university.

• Update and maintain the ORE website, research.utk.edu

• Send targeted communications to our faculty, research community, administrators, and stakeholders regarding the services that ORE provides and the successes of our research community.
Office of Sponsored Programs

Support of faculty, staff and research administrators by facilitating proposal processing and submission; reviewing, negotiating and accepting contracts; and managing awards.

• Proposal management
  – Guidance, consultation, and processing
  – Budget review and assistance
• Contract and award management
  – Review for compliance
  – Creation and negotiation of subawards
  – Negotiation of externally funded contracts
  – Administration of post-award changes
Encouraging responsible and ethical conduct of research critical for scholarly excellence, as well as building public trust during our quest for new knowledge.
Responsible Conduct of Research

Professional Conduct in the Field of Research ("Professionalism and Integrity") include:

- Protection of Human Research Subjects (OHRP)
- Care and Use of Research Animals (OLAW)
- Research Misconduct (ORI)
- Conflicts of Interest and Commitment
- Publication Practices, Responsible Authorship
- Data Acquisition, Management, Sharing and Ownership
- Mentor / Trainee Responsibilities
- Peer Review
- Collaborative Science
- Export Control
- Grant and contract compliance
- Laboratory Safety
Fostering collaboration, community of scholars, individual grantsmanship, faculty annual awards applications, fellowships, & grantsmanship training.

The FDT helps investigators secure external funding and recognition by providing:

- Proposal review and editing
- Graphics consultation
- Assistance with Young Investigator Awards, NSF CAREER Awards, fellowships
- Coordination of nominations for awards, prizes, and honors
- Expertise in Humanities and Social Science
- Online Resources: Grantseeker’s Toolkit, Funding lists and databases
- Workshops: Proposal Writing, Identifying Funders, Successful Collaborations
SciVal Funding easy as…

1. **Recommendations**
   - **Search Profile**
     - **Publication profile**
     - Personal recommendations
   - **Exclusions**

2. **Search Profile**
   - Keywords:
     - ab initio thermodynamics
     - active site
     - aromatic hydrocarbons
     - bimolecular coupling
     - calculations
     - catalytic activity

3. **Recommendations**
   - **Personal recommendations**
   - **Search Profile**
   - **Exclusions**

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**SciVal**

**Funding**

**easy as…**

**Recommendations**

**Search Profile**

**Publication profile**

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**SciVal**

**Funding**

**easy as…**

**Recommendations**

**Search Profile**

**Publication profile**

**Exclusions**

**Keywords**:
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- calculations
- catalytic activity
Enabling multi-faculty internal and external collaboration around large strategic opportunities by forming faculty research teams and leveraging UT research strengths and partnerships.

Providing strategic leadership, service, and facilitation for the following:

- Big idea proposals
- Sharing early knowledge of strategic opportunities & mobilizing internal interest
- Fostering and supporting agency visits with faculty
- Bringing sponsors to UT

Research Development Team

Director

- Sharon Pound
- Ailleen Boone
- Jennifer Webster

VACANT
Core Facilities are organized shared resources that advance the University’s central mission of research and education by providing users (faculty, staff, students, and external customers) with access to technologies, equipment, technical support, consultation, or other services, often on a fee or cost reimbursement basis.

The UT Core Facilities Program:
- Provides expertise and resources to faculty reducing lead up time for grant and publication submissions
- Saves costs to individual researchers by reducing the need for dedicated personnel and equipment
- Promotes faculty recruiting and retention by offering access to state-of-the-art resources
- Develops centralized support tools for core services: web design, billing, scheduling

Current UT Core Facilities:
- Biological and Small Molecule Mass Spectrometry Core (BSMMSC)
- Advanced Microscopy
- UT Genomics Core
- and expanding...
Federal Relations

Federal Relations: Matching faculty research capabilities with the science and technology needs of federal mission agencies, particularly DoD and NASA.

• Helps faculty obtain funding by increasing awareness of federal opportunities, including fellowships, conferences, and advisory groups

• Facilitates relationships with federal program officials, and supports faculty visits to officials in locations such as Washington, DC, and Huntsville, AL

• Plans and organizes events to enable faculty engagement with program officials on campus.

• Integrates collaboration between Faculty Development Team (FDT) and Research Development Team (RDT)

Paul Montgomery
Director

Army Research Office (ARO)
Army Research Lab (ARL)
Office of Naval Research (ONR)
Air Force Office of Scientific Research (AFOSR)
Defense Advanced Research Projects Agency (DARPA)
Army Aviation and Missile Research, Development & Engineering Center (AMRDEC)
Army Armaments Research Development & Engineering Center (ARDEC)
NASA Marshall Space Flight Center (MSFC)
Research Initiatives

Connects and fosters faculty relationships with private foundations and corporations; matching faculty expertise to private foundation interests within the geographical focus area; connects potential corporate partners to research and university resources; and fosters these relationships.

- Seeks funding opportunities for faculty research through targeted private foundation and corporate foundation support.
- Tracks and distributes existing funding opportunities for early career faculty. These prestigious funding opportunities are collected by the Center for Measuring University Performance (CMUP).
- Builds university research partnerships through groups such as the TN Valley Corridor (TVC), East TN Economic Council (ETEC), and Council on Advancement and Support of Education (CASE).
- Integrates collaboration between Faculty Development Team (FDT) and Research Development Team (RDT).
Science Alliance

State-funded Science Alliance started in 1982, to build programs with Oak Ridge National Laboratory (ORNL).

- Investment in collaborative research opportunities with ORNL through the Jointly-Directed R&D (JDRD) program.
- Supports the Science Alliance Collaborative Cohort program for underrepresented groups.

FY-2015-16 Collaborative Cohorts:

Tessa Burch-Smith
Assistant Professor
Biochemistry, Cellular & Molecular Biology

Tessa Calhoun
Assistant Professor
Chemistry

Joshua Sangoro
Assistant Professor
Chemical & Biomolecular Engineering

Stephanie TerMaath
Assistant Professor
Mechanical, Aerospace & Biomedical Engineering
ORE Fosters Partnerships

I/UCRC

NATIONAL ENDOWMENT FOR THE Humanities

CURENT

CENTER FOR ULTRA-WIDE AREA RESILIENT ELECTRIC ENERGY TRANSMISSION NETWORKS

FULBRIGHT

OAK RIDGE
National Laboratory

National Institute for Mathematical and Biological Synthesis

Y-12
National Security Complex

TNSCORE
TENNESSEE EPSCOR

Work from Jared Sprecher, 2009 Guggenheim Fellow
Strategic Research Investments

UT ORE has internal funding available:

SARIF

- **Scholarly and Research Incentive Fund (SARIF):** ORE administers over $1.1 million to support research and creative activities through its Scholarly Activity and Research Incentive Funds (SARIF). These eight programs are available to faculty and principal investigators whose departments fall under the jurisdiction of the Chancellor of UT’s Knoxville campus.

STIR

- **Strategic and Transformative Investments in Research (STIR):** ORE administers over $1.8 million to support its Strategic and Transformative Investments in Research (STIR). Funding is inclusive of broader strategic research opportunities that emphasize the intended transformative nature of the investment.
Internal Support Opportunities

Scholarly and Research Incentive Fund (SARIF)
- $1M in annual funding
- Equipment and Infrastructure
- Exhibit, Performance and Publication Expenses
- Federal, Corporate, and Foundation Opportunity
- Foreign Travel
- Open Publishing
- Summer Graduate Student Assistanceships
- Scholarly Projects
- Supplement for In-Residence Fellowships
- Opportunities – strategic high-level institutional investments

Strategic and Transformative Investments in Research (STIR)
- $1.8M in annual funding
- Finite investment strategy for research growth opportunities with emphasis on transdisciplinary research
- Organized Research Units (ORU)
- Community of Scholars
- Strategic targeted opportunities
Organized Research Unit (ORU) Funding

Total ORU Funding 2009-2016: $13.5 Million

Center on Deafness
Newborn Hearing Program

Center for Information Technology Research
Integrated Discovery Program with Sustainable Context

NeuroNET
Neuroscience Network of East Tennessee
AVCR Priorities

- Complex Opportunities
- Targeted Growth Areas
- NIH
- Transdisciplinary Research
- Community of Scholars
- Teaming
- Core Facilities
Start-up Research Investments

Elizabeth Neilson, Assistant Vice Chancellor for Research Finance and Administration

Start-up Funds allocated to help launch successful academic career – research and creative activity

• 50% of start-up funding provided to faculty
• Help the new faculty member achieve a rapid and successful start
• Not a line item budget – flexible spending between categories
• Flexible funding allocations by year
• 10% carryover automatic after 1\textsuperscript{st} and 2\textsuperscript{nd} years; otherwise require justification