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Committee Meeting: 8/21/2024

Board Meeting: 8/22/2024
Austin, Texas

Jodie Lee Jiles, Chairman
Christina Melton Crain
Robert P. Gauntt
Janiece Longoria
Nolan Perez
Stuart W. Stedman

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Adjourn	<i>2:45 p.m.</i>		

1. **U. T. System Board of Regents: Discussion and appropriate action regarding Consent Agenda items, if any, assigned for Committee consideration**

RECOMMENDATION

The Board will be asked to approve the Consent Agenda beginning on [Page 188](#).

2. U. T. Austin: Presentation on Department of Defense (DOD) Microelectronics Manufacturing Center grant funding awarded to U. T. Austin

President Hartzell and Dr. S.V. Sreenivasan, Associate Vice President for Semiconductor Manufacturing Strategies, will present an update on the recent \$840 million dollar award from Defense Advanced Research Project Agency (DARPA) to establish a Department of Defense (DOD) Microelectronics Manufacturing Center at U. T. Austin using the PowerPoint presentation set forth on the following pages.



TEXAS INSTITUTE FOR ELECTRONICS

A University of Texas at Austin-sponsored public-private partnership



TIE Summary

DARPA Next Generation Microelectronics Manufacturing (NGMM)

U. T. System Board of Regents Meeting

Academic Affairs Committee

August 2024

LANDSCAPE AND OPPORTUNITY

- The U.S. is overly-reliant on overseas semiconductor manufacturing, particularly from Taiwan, threatening economic and national security.
- Texas has long been a global leader in semiconductors:
 - First in total exports
 - First in total capacity
 - Second in total employment
- The City of Austin has been at the forefront of the semiconductor industry since the formation of Sematech in the 1980s, including home to a cluster of high-tech companies, earning Austin the nickname “silicon hills.”
- These factors made it the right time for U. T. Austin to take a big bet on Semiconductors.
- That big bet turned into the Texas Institute for Electronics, or TIE.

LEADERSHIP SUPPORT AND CREATION OF TIE

- In April 2021, TIE grew out of U. T. Austin's Nanomanufacturing Systems Center (NASCENT) by leveraging U. T. Austin's infrastructure (80k square foot cleanroom, Pickle Research Campus, and Taylor, Texas land donation) and faculty expertise in semiconductor Advanced Packing and Heterogeneous integration.
- Since October 2021, the Board of Regents merged \$112M in CCAP funding for U. T. Austin to purchase critical equipment and perform necessary upgrades to the microelectronic center at the Pickle Research Campus in preparation of federal funding.
- In August 2022, Congress, with strong support from the Texas delegation, passed the U.S. CHIPS and Science Act.
- In May 2023, the state legislature passed the Texas CHIPS Act allocating an additional \$440M to modernize critical semiconductor infrastructure at U. T. Austin.

U. T. Austin Strengths

High-Performance Computing, Artificial Intelligence, Army Futures Command research hub



Nationally recognized microelectronics and semiconductor manufacturing centers



World's Fastest Academic Supercomputer



Top ranked program in advanced computing, large scale optimization, AI for big-data analytics

Pickle Research Campus

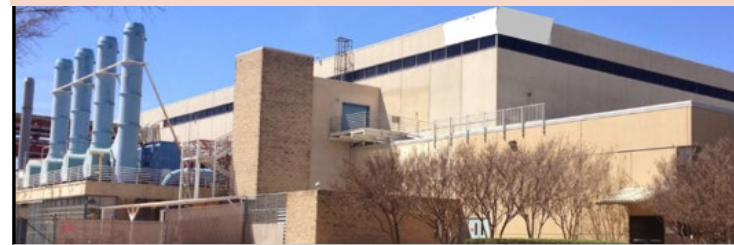
Microelectronics Research Center, Applied Research Laboratories, etc.



August 2024

Montopolis Campus

Industrial-scale Semiconductor Fabrication Facility, Former Home of Sematech



TIE DARPA NGMM Overview

TIE INDUSTRY AND ACADEMIC PARTNERS

TIE STRATEGIC INDUSTRY PARTNERS							
OTHER INDUSTRY PARTNERS							
ACADEMIC PARTNERS							

THE BIG BET HAS ALREADY PAID OFF

- In July 2024, U. T. Austin was awarded \$840M for Defense Advanced Research Project Agency's (DARPA) Next Generation Microelectronics Manufacturing (NGMM) program.
- TIE will develop the next generation of high-performing semiconductor microsystems for the Department of Defense.
- U. T. Austin beat out teams led by New York, Arizona, Florida and Indiana for this single-site award.
- The DARPA award is a significant return on the Texas Legislature's \$552M investment in TIE, which funded the modernization of two U. T. Austin fabrication facilities to strengthen long-term U.S. technology leadership.
- DARPA's NGMM program is among the largest federal awards ever to any U. T. System institution.
- With the DARPA win as a foundation, U. T. Austin and TIE are well positioned and will compete for more funding from the federal CHIPS Act.

DARPA Next Gen Microelectronics Manufacturing (NGMM)

One Department of Defense (DoD) funded nonprofit, open-access, semiconductor center for excellence

DARPA NGMM Program Goals:

3D Heterogenous Integration (HI) Mfg. Technology Roadmap

Establish a program for leading-edge semiconductor technologies

Pilot Manufacturing Fab

Establish a fab for 3DHI microsystem R&D and pilot manufacturing for defense and commercial sectors

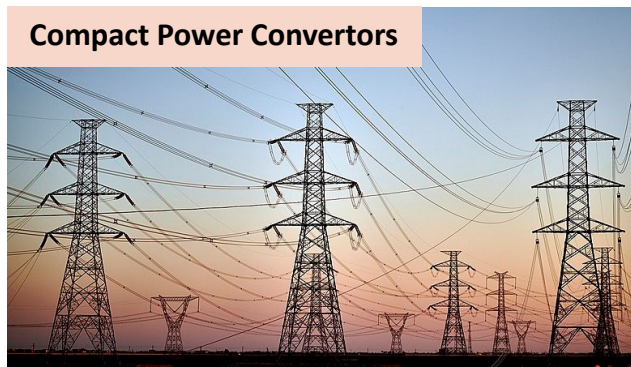
Domestic Pathways for Technology Transfers

Partner with US production fabs to broadly deploy TIE technologies

Comprehensive Workforce Development Program

Make Texas a premier hub for comprehensive semiconductor workforce development

Impact on Defense and Commercial Applications



3. **U. T. System: Discussion and appropriate action regarding (a) proposed Third Agreement of Cooperation in Higher Education and Research with The National Council of Humanities, Sciences and Technologies (CONAHCYT) of Mexico; (b) allocation of \$11.35 million in Available University Funds (AUF) to continue support of the Agreement; and (c) finding that the expenditure of AUF for this purpose is appropriate**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs, and the Executive Vice Chancellor for Business Affairs that the U. T. System Board of Regents

- a. approve the U. T. System's Third Agreement with The National Council of Humanities, Sciences and Technologies (CONAHCYT) as described on the following page.
- b. authorize \$11.35 million in Available University Funds (AUF) to continue the support of the agreement with CONAHCYT through Fiscal Year 2030; and
- c. find that expenditure of AUF for this purpose is appropriate under the U. T. System's responsibilities to coordinate the activities of the U. T. System institutions participating in the program, including support and maintenance of the participation of U. T. Austin in the program, with the intent that the expenditure will benefit a broad number of U. T. System institutions.

BACKGROUND INFORMATION

A Memorandum of Understanding (MOU) was executed on August 25, 2015, establishing the basis for programs of cooperation between U. T. System and CONAHCYT (then known as The National Council of Science and Technology (CONACYT)) to promote and strengthen relations between both countries in regard to higher education and research. Using the MOU as a platform, the Agreement of Cooperation in Higher Education and Research represents the initial funded series of jointly-funded educational and research programs. On May 12, 2016, the Board of Regents authorized \$5 million in AUF to support that agreement for four years, followed by another \$5 million AUF allocation approved on November 24, 2019. On August 24, 2023 the Board of Regents approved the Second Amendment which extended this arrangement through December 31, 2025. The programs supported through this Agreement include Mexican Ph.D. student education at U. T. System institutions, exchange of postdoctoral fellows, exchange of non-degree students and faculty, and collaborative research projects. The proposed funding provides continued program and administration support. The partnership with CONAHCYT is a U. T. System Administration program administered through an office located on the U. T. San Antonio campus known as the ConTex Office. The office functions under contract with U. T. System Administration through the Office of Academic Affairs. U. T. System Administration reimburses U. T. San Antonio with the allocated AUF based on invoices submitted or other

appropriate means. The allocation of AUF will also be used to reimburse U. T. Austin for expenses related to U. T. Austin's participation in the program. Funds provided by CONAHCYT are used to reimburse the cost of institutional participation for those U. T. System institutions choosing to participate. Most U. T. System institutions have previously participated individually in educational programs funded by CONAHCYT.

Advance notice of this proposed System initiative funded with AUF was provided to the Legislative Budget Board as required by Rider 7, Page III-78 of the current General Appropriations Act.

SUMMARY OF TERMS OF AGREEMENT

This will be the third Agreement of Cooperation in Research and Higher Education between CONAHCYT and U. T. System. This agreement is for a five-year term, supersedes the Second Agreement with CONAHCYT, and will renew automatically unless terminated by either party. The agreement renews and continues the relationship allowing the parties to undertake activities of cooperation in humanistic and scientific research, technological development and innovation, based on joint initiatives, projects and programs including joint support of doctoral graduate programs for Mexican students who have been selected as awardees of the CONHACYT doctoral scholarship and who are admitted to a doctoral program at a U. T. institution. As part of the collaboration, CONAHCYT will provide a scholarship that will include a monthly stipend, tuition scholarship, and annual support for health insurance for the first four years of the students' doctoral study. During the students' fifth year of study, U. T. System agrees to provide comparable funding support. Additionally, U. T. System will continue supporting the ConTex office, including its operations, which are administered through an office located at U. T. San Antonio, to implement the agreement and ensure the success of the doctoral students.

4. U. T. System: Approval of \$695,000 in Available University Funds (AUF) to support the U. T. System Legislative Fellowship Program; and finding that the expenditure of AUF for this purpose is appropriate

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the Executive Vice Chancellor for Business Affairs that the U. T. System Board of Regents:

1. authorize \$695,000 in Available University Funds (AUF) to support the U. T. System Legislative Fellowship Program during the 89th Texas Legislative Session; and
2. find that expenditure of AUF for this purpose is appropriate under the U. T. System's responsibilities to coordinate the activities of the U. T. institutions participating in the program with the intent that the expenditure will benefit students of a broad number of U. T. institutions.

BACKGROUND INFORMATION

During the 88th Texas Legislative Session in 2023, U. T. System piloted a Legislative Fellowship Program serving 42 undergraduate, graduate, and law students from seven of the then-eight academic institutions and five Stephen F. Austin State University students. Students interned in 33 legislative offices, committees, and state agencies, elevating the visibility of the U. T. System and its institutions while providing students with valuable leadership and professional experience. Based on the success of the 2023 pilot and the continued interest from students, institutions, and legislative offices and agencies, the program is proposed to be continued for the 89th Texas Legislative Session in 2025.

The pilot program was funded from a non-recurring source for which Board approval was not required. Funding from the AUF, which requires Board action, is requested to continue the program.

Advance notice of this proposed System initiative funded with AUF was provided to the Legislative Budget Board as required by Rider 7, Page III-78 of the current *General Appropriations Act*.

Funding Details

For many U. T. System students and their families, participation in a semester away program in Austin is cost-prohibitive because students must relinquish jobs or graduate assistantships while also funding the extra cost of living in Austin, the fifth most expensive city in the U.S.

Funds will 1) increase program accessibility by providing financial support for scholarships/fellowships; 2) increase program excellence through adequate staffing, including a dedicated full time staff member; and 3) expand programming, resulting in a robust experience for participants.

The proposed use of funds is as follows:

\$510,000 Student Funding

- Undergraduate Fellowships (up to \$10,000 per full time intern)
- Graduate Fellowships (up to \$10,000 per full time intern or \$5,000 per part time intern)
- Access to U. T. Austin Campus Resources (bus, health and mental health services, and gym for non-U. T. Austin students)

\$150,000 Staffing

- FTE (Austin-based) to ensure smooth program operations, manage day-to-day operations, and grow public service-learning opportunities at the state level
- PTE (Austin-based) to provide data analytics and/or administrative support

\$35,000 Programmatic Costs

- Orientation and professional development activities, networking events, leadership speaker series, and graduation

5. U. T. El Paso: Discussion and appropriate action regarding approval of an update to the Campus Master Plan

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve an update to the Campus Master Plan for U. T. El Paso.

BACKGROUND INFORMATION

President Wilson will present a proposed Campus Master Plan that will support U. T. El Paso's programs based on analysis of projected space needs and building conditions using the PowerPoint presentation set forth on the following pages. The updated plan integrates U. T. El Paso's 2030 Strategic Plan, Strategic Enrollment Plan, Campus Space Studies, Facilities Condition Index, Capital Expenditure Plan, and multiple utility studies. While new facilities are anticipated in the plan, emphasis was placed on evaluating all buildings to assess their condition and functional use, on determining alignment with current and future needs, and on improving the facilities' condition through cost-effective maintenance and removal of some infrastructure beyond its useful life. This plan also focuses on creating a process for the University to continuously inform and more frequently update the plan to accommodate future needs.

The proposed Master Plan establishes a road map for the next 10 years, detailing how the campus can address short-term and long-term needs. The plan is arranged into three different phases to address near-term, long-term, and priority building renewals.

Portions of the near-term roadmap are currently underway with the construction of the Advance Manufacturing & Aerospace Center and Texas Western Hall. Planning has also begun on the construction of new student housing, a Student Success Center, and the replacement and renovation of the Union Complex.

The plan reinforces the natural and architectural beauty of the campus as a Bhutanese-inspired oasis surrounded by the Franklin Mountains and the cities of El Paso and Ciudad Juarez.



THE UNIVERSITY OF TEXAS AT EL PASO

2024 CAMPUS MASTER PLAN

Dr. Heather Wilson, President

U. T. System Board of Regents Meeting
Academic Affairs Committee
August 2024



The University of
Texas System

U.T. EL PASO 2024 CAMPUS MASTER PLAN

Planning Inputs

2030 Strategic Plan

Strategic Enrollment Plan

Space Analysis + Projections

Comprehensive Building Review

Facilities Condition Index

Utility Studies (2006 + 2021)



The University of
Texas System

U.T. EL PASO 2024 CAMPUS MASTER PLAN

Parameters

Enrollment Growth Up to 30,000 students	110,000 GSF
Research Growth Up to \$200M in research expenditures	115,000 GSF
Housing Growth 1,000 additional beds	450,000 GSF
Community Engagement Larger, more frequent events	105,000 GSF





Long-term Property Acquisition



The University of Texas System



Campus Overview



The University of Texas System



Advanced Manufacturing & Aerospace Center



The University of Texas System



Advanced Manufacturing & Aerospace Center



The University of
Texas System



Texas Western Hall



The University of Texas System



Texas Western Hall



The University of Texas System



Landscape Restoration



The University of Texas System



Student Success Building



The University of Texas System



Student Union





New Student Housing

U.T. EL PASO 2024 CAMPUS MASTER PLAN

Major Issue: Maintenance and Repair

- As of Fiscal Year 2023, deferred maintenance is \$341 million.
- UTEP's facilities condition index is 15.64%, one of the highest in the State.



Facility Condition



The University of Texas System

U. T. EL PASO 2024 CAMPUS MASTER PLAN

Keys To Infrastructure Transformation

- Increase intensity of space use in both classrooms and labs
- Eliminate at least 5% of old infrastructure not worth maintaining
- Review/update charge structure of outside users, and budget percentage of revenue for maintenance and repair (M&R)
- Facilities overhead collected from research must go to facilities
- Gradually increase M&R budget to 2% of replacement cost
- Propose PUF and legislative capital improvement projects that are well justified and mission essential

U.T. EL PASO 2024 CAMPUS MASTER PLAN

Next Steps

- Manage current construction on cost/schedule
- Student fee vote on Union renewal
- Legislative request prioritizes Student Success building to move functions out of Union
- Cost-effective student housing – traditional dorm
- PUF request to start M&R recovery
- Work with community on Sun Bowl



6. **U. T. Tyler: Discussion and appropriate action regarding tuition and fees for the U. T. Tyler Doctor of Pharmacy degree program**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs, the Executive Vice Chancellor for Business Affairs, and the Vice Chancellor and General Counsel that the U. T. System Board of Regents approve the proposed change in tuition and fee rates for the Doctor of Pharmacy degree program at The University of Texas at Tyler for Fiscal Year 2025, as recommended by the institutional president.

BACKGROUND INFORMATION

The enabling legislation creating the Fisch College of Pharmacy at U. T. Tyler did not authorize formula funding for the program. As a result, on November 14, 2013, the U. T. System Board of Regents approved establishment of the Doctor of Pharmacy program as a self-supporting program and tuition was initially set at a market rate higher than U. T. Tyler's standard published rates. On June 10, 2023, Governor Greg Abbott signed 88(R) H.B. 1794, which made the U. T. Tyler Fisch College of Pharmacy eligible for formula funding by repealing Section 76.026(c) of the *Texas Education Code*, which established the school's ineligibility for such funding. Accordingly, U. T. Tyler is requesting approval to switch from the previous flat-market rate for the program to a new formula-funded rate. All mandatory fees will also be charged. To meet statutory requirements for formula funding eligibility, U. T. Tyler is required to charge tuition based on its published doctoral rates. Eligibility for formula funding will result in a decrease in tuition for resident students. An overview of the institution's tuition proposal for the Doctor of Pharmacy degree program for Fiscal Year 2025 is on the following page.

A public hearing opportunity regarding the proposed change to designated tuition will be provided before the full Board prior to consideration of this item during the Committee meeting.

**The University of Texas at Tyler Ben and Maytee Fisch College of Pharmacy
Tuition and Fee Proposal Plan Fall 2024
(Fiscal Year 2025)**

SUMMARY OF TUITION		
	Current Tuition	Proposed Doctor of Pharmacy (Pharm.D.) Program Tuition 2024 -25
Ben and Maytee Fisch College of Pharmacy		
Doctor of Pharmacy (Pharm.D.) Program 36 Semester Credit Hours (SCH) Resident	\$25,006	\$14,760
Doctor of Pharmacy (Pharm.D.) Program 36 Semester Credit Hours (SCH) Non-Resident	\$25,006	\$32,724

DETAILS OF PROPOSED RESIDENT TUITION (NEW)		
Ben and Maytee Fisch College of Pharmacy Doctor of Pharmacy (Pharm.D.) Program		
Statutory Authority	Current Rate	Proposed 2024-25
Statutory-54.051		\$50
Designated-54.0513		\$360
Tuition Total per SCH		\$410
Market Rate Tuition (per year)	\$ 25,006	
TOTAL Annual Tuition @ 36 SCH	\$ 25,006	\$14,760

DETAILS OF PROPOSED NON-RESIDENT TUITION (NEW)		
Ben and Maytee Fisch College of Pharmacy Doctor of Pharmacy (Pharm.D.) Program		
Statutory Authority	Current Rate	Proposed 2024-25
Statutory-54.051		\$460
Designated-54.0513		\$449
Tuition Total per SCH		\$909
Market Rate Tuition (per year)	\$ 25,006	
TOTAL Annual Tuition @ 36 SCH	\$ 25,006	\$32,724

7. **U. T. Austin: Request to approve the honorific naming of the Center for Electrochemistry as the Allen J. Bard Center for Electrochemistry**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs, the Vice Chancellor for External Relations, Communications, and Advancement Services, and the institutional president that the U. T. System Board of Regents approve the honorific naming of the Center for Electrochemistry as the Allen J. Bard Center for Electrochemistry to recognize the long history of significant thought leadership by the late Dr. Allen J. Bard.

BACKGROUND INFORMATION

The Center for Electrochemistry was established in 2006 to foster collaborative research programs in the electrochemical sciences. Located in Robert A. Welch Hall, the Center's mission is to advance research and solve fundamental and applied problems related to the transfer of electrons or ions at interfaces. It offers a strong coupling between fundamental electrochemistry and materials science and fields that are a foundation for widespread applications in diverse areas such as energy and health. The Center has more than 250 faculty, staff, and student researchers spanning the chemistry, materials, and engineering aspects of electrochemical science.

Dr. Allen J. Bard, who passed away on February 11, 2024, was a faculty member at The University of Texas at Austin for nearly 65 years. Often referred to as the "father of modern electrochemistry," Dr. Bard made global contributions to science, including developing scanning electrochemical microscopy, discovering single-electron electrochemiluminescence, pioneering the photoelectrochemistry and fuel-forming reactions on semiconductor electrodes, and leading the field in analytical single-entry detection methods.

Dr. Bard received many of science's most prestigious awards, including the American Chemistry Society's 2002 Priestley Medal, the 2008 Wolf Prize in Chemistry, a 2011 U.S. National Medal of Science, and the 2019 King Faisal International Prize in Science, among many other honors. An author of more than 1,000 academic papers, Dr. Bard co-wrote three books, secured more than 30 patents, and trained over 75 doctoral students and 150 postdoctoral researchers.

This naming proposal is consistent with the Regents' *Rules and Regulations*, Rule 80307, relating to honorific namings to recognize extraordinary contributions. While Rule 80307 generally requires that namings for faculty occur at least five years after the individual's retirement or death, this naming is considered appropriate based on the fact that Dr. Bard was one of the most significant scientists in his field and the naming will bring great distinction to the Center for Electrochemistry and continue his important legacy at U. T. Austin. There is a desire to honor him now due to his exceptional importance to U. T. Austin and to electrochemistry.