An Overview of the Alliance and Its Collaboration with the U.S. DOE Office of Science and the National Lab Directors’ Council

Dr. Taylor Eighmy, President
The University of Texas at San Antonio
The Alliance of Hispanic Serving Research Universities

Established June 2022
Led by presidents and chancellors
Supported by:
• Cross-institutional affinity groups
• Partnership working groups
• Executive Director

21 of 149 Carnegie R1s  |  21 of Dept. of Education 559 HSIs
Alliance Goals to Ensure our 21st Century Science & Engineering Enterprises

By 2030

“ENSURING THE VITALITY OF OUR NATION’S 21st CENTURY SCIENCE AND ENGINEERING R&D ENTERPRISES”

Double the number of Hispanic doctoral students enrolled at our 21 universities

Increase by 20% the Hispanic professoriate in our 21 universities

Strategic, Impactful and Scaled Mutually Beneficial Partnerships Between The Alliance and DOE, DOD, NSF, and NIH to Ensure our Talent Pipelines and National Discovery Enterprise
<table>
<thead>
<tr>
<th>Category</th>
<th>Detail</th>
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<tbody>
<tr>
<td>Total Enrollment</td>
<td>837,136</td>
</tr>
<tr>
<td>Percentage Hispanic</td>
<td>32%</td>
</tr>
<tr>
<td>Total Degrees Awarded</td>
<td>204,751</td>
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<tr>
<td>Percentage Hispanic</td>
<td>29%</td>
</tr>
<tr>
<td>Total Ph.Ds. Awarded</td>
<td>7,000</td>
</tr>
<tr>
<td>Low-Income Students</td>
<td>36% of undergraduates received Pell grants</td>
</tr>
<tr>
<td>Full-Time Hispanic Faculty</td>
<td>3,332</td>
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<tr>
<td>Percentage of all faculty</td>
<td>9.1%</td>
</tr>
<tr>
<td>Post Docs Enrolled</td>
<td>3,941</td>
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</tbody>
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Alliance Research Metrics for ‘21 (NSF HERD Data)

Across our 21 Universities:

- $7.3 billion
  Total Annual Research Expenditures

- $3.59 billion
  Total Annual Federal Research Expenditures

- $0.227 billion
  Total Annual DOE Research Expenditures

- $0.521 billion
  Total Annual DOD Research Expenditures

- $0.629 billion
  Total Annual NSF Research Expenditures

- $1.67 billion
  Total Annual DHHS Research Expenditures
Alliance Member Formal Relationships By DOE Lab
DOE Hubs Involving Alliance Member Institutions & DOE Labs (*host or co-host)

DOE ENERGY INNOVATION HUBS

Critical Materials Institute
ASU, UA & AL*, INL, LLNL, ORNL

National Alliance for Water Innovation
ASU, TAMU, UCI, UIC, UT Austin, UTEP & ANL, INL, LBNL*, LLNL, NETL, NREL, ORNL, SNL

Joint Center for Energy Storage Research
UIC, UT Austin & ANL*, LBNL, SLAC, SNL

Joint Center for Artificial Photosynthesis
UCI*, & LBNL, SLAC
DOE National QIS Research Centers Involving Alliance Member Institutions & DOE Labs (*host)

DOE NATIONAL QIS RESEARCH CENTERS

- Q-NEXT
  - UCSB & ANL*, SLAC, PNNL

- C²QA
  - CUNY, UCSB, UIC & AL, BNL*, JL, PNNL,

- QUANTUM SYSTEMS ACCELERATOR
  - UNM, UT Austin, & LBNL*, SNL

- QUANTUM SCIENCE CENTER
  - UCSB & FL, LANL, ORNL*, PNNL

- SUPERCONDUCTING QUANTUM MATERIALS & SYSTEMS CENTER
  - UA & AL, FL*, JL
DOE Manufacturing Innovation Institutes Involving Alliance Member Institutions (*host) & DOE Labs

DOE MANUFACTURING INNOVATION INSTITUTES

UA, UCI, UTEP

TTU, UCI, UT Arlington, UT Austin, UTEP, UTSA* & INL, ORNL, SNL

TTU & ANL, NREL, SNL

TAMU, TTU, UA, UH, UT Austin & ANL, INL, NETL, NREL, PNNL, SRNL

ASU, UCSB, UCI & AL, ANL, INL, NREL, ORNL, PNNL
DOE Energy Frontier Research Centers Involving Alliance Member Institutions As Hosts (*host) & DOE Labs

DOE ENERGY FRONTIER RESEARCH CENTERS

UCI* &
LLNL, ORNL, PNNL

CUNY, UCI* &
LLNL, NREL, SNL

UCSA, UT Austin* &
LBNL

TAMU* &
LBNL, NREL, SNL

UA* &
NREL

ASU*, UCR &
SNL
DOE Energy Frontier Research Centers With Alliance Member Institutions As Partners & DOE Labs

**DOE ENERGY FRONTIER RESEARCH CENTERS**

- **biEC**: ASU, & BNL, NREL, SLAC
- **BEES**: CUNY, TAMU & PNNL
- **H₂**: UIC & ANL
- **CABES**: UTEP & LANL, NREL
- **CHiPPS**: UCSB & ANL, LBNL
- **CHOISE**: UCSC & NREL
- **CLSF**: UTEP & ORNL
- **m²f**: UT Austin & BNL, LBNL
- **M²QM**: UCF & LANL
- **n²p²q²c**: UCSB & ANL, LBNL
DOE Energy Frontier Research Centers With Alliance Member Institutions As Partners & DOE Labs

**DOE ENERGY FRONTIER RESEARCH CENTERS**

- UCSB, UH
- UIC & SLAC
- UCSB & SLAC
- UCSB, UIC & AL, ANL, LANL
- UTSA & INL, ORNL
- TAMU, UCSB & ORNL
- UTSA & LANL, PNNL
- UT Austin & ORNL
- UCSB & BNL
- UCI, UT Austin & LLNL
- UCR & ORNL, SNL

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**Center for Programmable Energy Catalysis**

**Quantum Sensing and Quantum Materials (GSQM)**

**Synthetic Control Across Length-scales**

**CATS**
Alliance Member Centers, Institutes and Affiliated Programs Funded By DOE

TAMU
- Ocean Energy Safety Institute
- SETx URBAN IFL
- Smart Grid Center
- CENTER FOR EXCELLENCE
- ZOE Laboratory

TTU
- growing STEMS
- The Hub

CU-D
- CO-LABS

CUNY
- ADVANCED SCIENCE RESEARCH CENTER

UNT
- Reaching for a star

UT Austin
- SETx URBAN IFL
- University of Texas at Arlington

UTA
- AERODYNAMICS RESEARCH CENTER

UTSA
- NATIONAL SECURITY COLLABORATION CENTER
- ALLIANCE OF HISPANIC SERVING RESEARCH UNIVERSITIES
The Alliance of Hispanic Serving Research Universities

- Engaging NLDC, Office of Science
  - Potentially expand Existing Programs (SULI, VPI, CCI)
  - Explore FOA
- Similar developmental focus with DOD, NSF, NIH
- Engaging U.S. Congress
- Engaging U.S. Department of Education
- Continuing to evolve strategic relationships