

TOM LOVE
INNOVATION HUB
AT THE UNIVERSITY OF OKLAHOMA

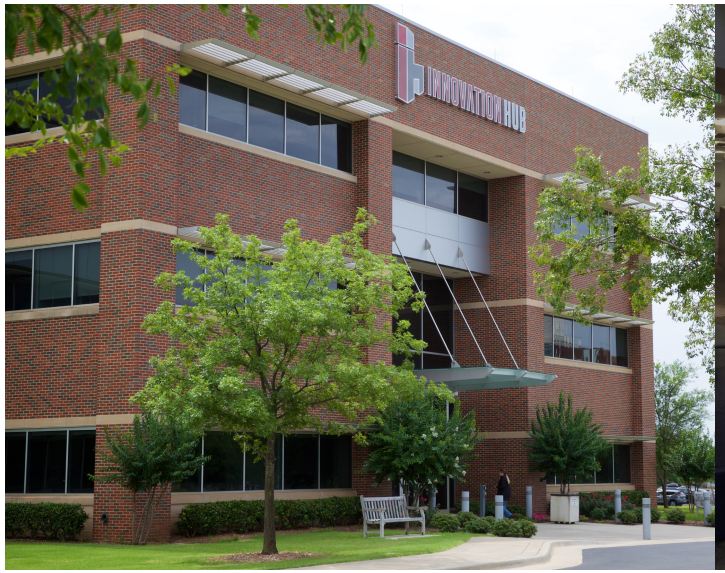
OKLAHOMA
CATALYST
PROGRAMS

Innovation to Impact: Understanding SBIR/STTR Opportunities

TOM LOVE INNOVATION HUB

Working to increase entrepreneurship & innovation across the University of Oklahoma and the surrounding community

- **Open to anyone, free, and IP "neutral"**
- **University-wide collaboration to harness OU's economic potential**
- **Broad range of resources, programs, and expertise**





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TOM LOVE INNOVATION HUB RESOURCES

Fabrication Lab
- 30+ systems including 3D printers laser cutters, CNC mill, woodshop, etc.

Visualization Lab
- Fully immersive VR systems including 4 Oculus Rifts & 1 HTC Vive

Code Lab
- Hardware & software systems + events to support coding and web development

Collaboration Zones
- Flexible Spaces for classes, meetings, events, etc.

201 Café & Fitness Center
- Full service food facilities and 24/7 workout facilities

Legal Clinic
- Advice on business contract law and simple IP issues

Entrepreneurial Advise
- The Tom Love Center for Entrepreneurship and the Ronnie K. Irani Center for the Creation of Economic Wealth both offer advice.

Oklahoma Catalyst Programs
- 11 different programs to promote entrepreneurship and support small businesses in Oklahoma

OKLAHOMA CATALYST PROGRAMS

SBIR/STTR BASICS

The $2.5 billion SBIR/STTR programs fund small businesses to develop and launch innovative new products.

Start Phase I — 6 Months — Start Phase II — 1 Year — 2 Years

PHASE I

- **$70,000-$150,000** for 6 months to 1 year
- Demonstrate Feasibility

PHASE II

- **$750,000-$1,500,000** for 2 years
- Mature concept and demonstrate performance in a feasible environment

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SBIR/STTR PARTICIPATING AGENCIES

SBIR/STTR funding comes from a 10% tax on the extramural research budget of all U.S. government agencies with budgets in excess of $100 million dollars

Department of Defense (DoD)

Department of Health & Human Services (HHS)

National Science Foundation (NSF)

Department of Energy (DOE)

United States Department of Agriculture (USDA)

National Institute of Standards & Technology

Department of Homeland Security

National Oceanic & Atmospheric Administration

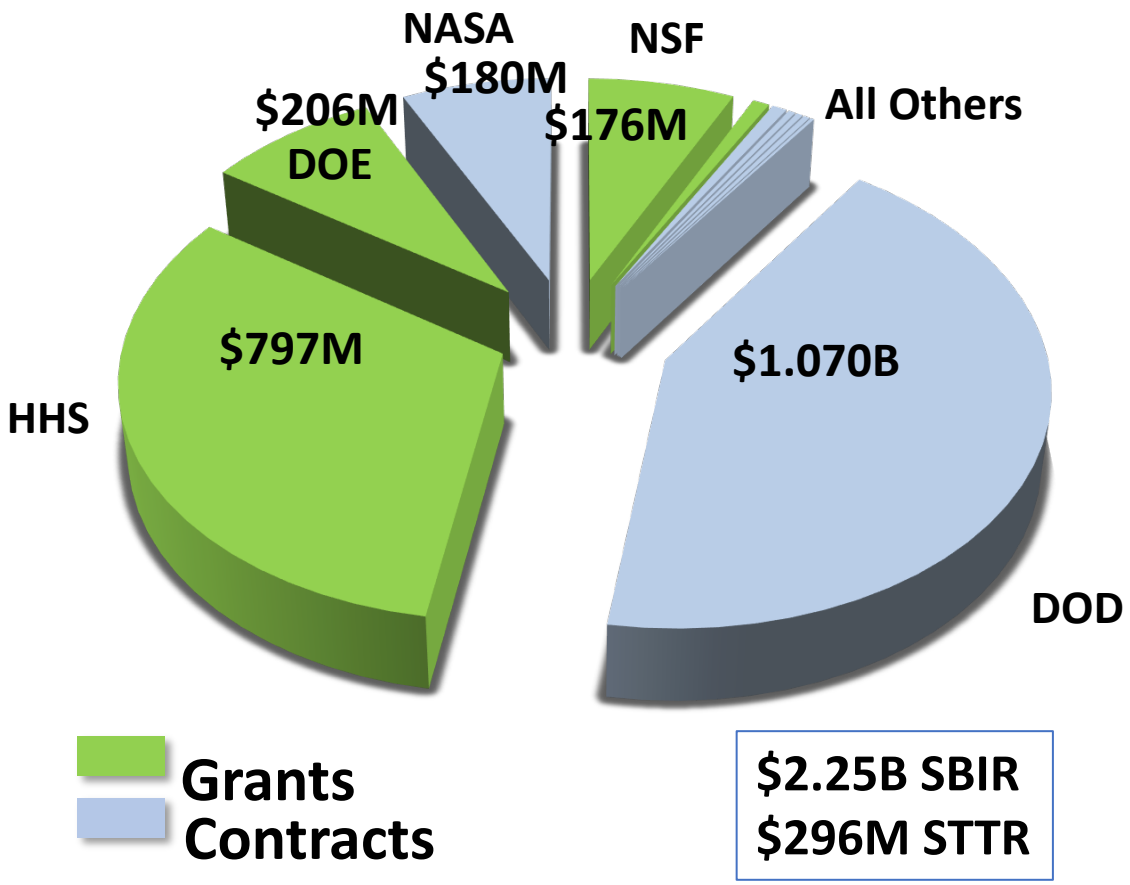
National Aeronautics and Space Administration (NASA)

Department of Education

OKLAHOMA CATALYST PROGRAMS

SBIR/STTR Budget by Agency, FY2015

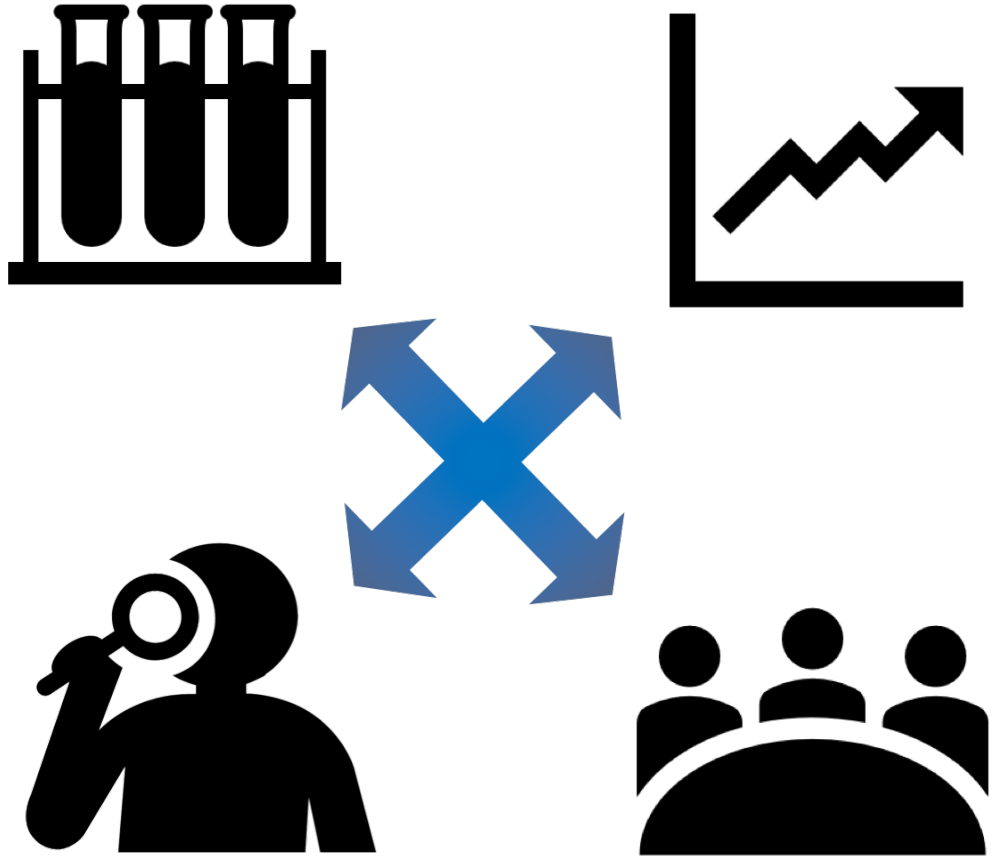
Agencies with SBIR/STTR Programs	Budget
Department of Defense (DOD)	$ 1.070 B
Department of Health and Human Services (HHS), including the National Institutes of Health (NIH)*	$797.0 M
Department of Energy (DOE), including Advanced Research Projects Agency – Energy (ARPA-E)	$206.1M
National Aeronautics and Space Administration (NASA)	$ 180.1 M
National Science Foundation (NSF)	$176.0 M
Agencies with SBIR Programs	**Budget**
U.S. Department of Agriculture (USDA)	$20.3M
Department of Homeland Security (DHS): Science and Technology Directorate (S&T) and Domestic Nuclear Detection Office (DNDO)	$17.7 M
Department of Commerce: National Oceanic and Atmospheric Administration (NOAA) and National Institute of Standards and Technology (NIST)*	$8.4M
Department of Transportation (DOT)	$7.9 M
Department of Education (ED)	$7.5 M
Environmental Protection Agency (EPA)	$4.2 M



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SBIR/STTR AS A CATALYST

- **Business perspective**
  - Builds relationships with researchers and students
  - Leverages years of academic research into cutting edge technologies to increase probability of funding
  - Provides an opportunity to better understand technology, risk, and market prior to licensing university IP
  - Grows business
- **University perspective**
  - Provides seed capital for university startups
  - Fosters collaboration with small business
  - Provides research funding for faculty and students
  - Identifies new markets for university IP
  - Matures and de-risks university IP
  - Increases the probability of technology transfer



Universities are Frequent SBIR Partners & Beneficiaries

- Nearly 50% of SBIR & 95% of STTR projects across agencies have university involvement
- For some agencies, universities are involved in more than 50% of SBIR projects (e.g. NIH 70%, NSF 58%)
- ~20% of SBIR awards have sub-awards to universities
- Over 350 different research institutions have been involved in SBIR projects alone

Inspector General Warning

SBIR is an amazing resource – if used appropriately.

Duplication of Research - ¶31
Duplicative Contracts - ¶41
Duplicative Proposals - ¶43
Duplicative Reports - ¶44
False Statements Concerning Commercialization - ¶47
PI not employed by company- ¶54
False Statements to DCAA - ¶63
Inflated Overhead Costs 74

Payments to Consultants/ Subcontractors (direct expenses) - ¶65
Personal Expenses in Company Overhead - ¶77
University Subcontracting- ¶78
Use of University lab and equipment
Listing consultants and equipment you do not have

A STATEWIDE & NATIONAL COLLABORATION

OKLAHOMA CATALYST PROGRAMS

SBA U.S. Small Business Administration

OCAST

OKLAHOMA BUSINESS ROUNDTABLE
BUILDING A STRONGER OKLAHOMA

THE OKLAHOMA CATALYST PROGRAMS

Networking

- Tinker SBIR Workshop
- OK-WISE Conference
- Catalyst Roadshow
- SBIR Connector

Training

- Catalyst Researchers
- Catalyst Lectures
- Catalyst Internship
- SBIR Reviewers Network

Funding

- SBIR Virtual Accelerator
- SBIR Accelerator

OKLAHOMA CATALYST PROGRAMS

NETWORKING PROGRAMS



OK-WISE Conference

September 14th*

The Oklahoma Women Impacting STEM & Entrepreneurship Conference in September will highlight the impacts made by women working in STEM & entrepreneurship in Oklahoma & beyond.



Tinker SBIR Workshop

April 20th-24th

The Tinker Air Force Base SBIR & DoD Vision Workshop will be a half-day workshop focused on connecting people interested in Air Force SBIR/STTR topics with the topic authors from Tinker Air Force Base.



SBIR Connector

May 2018 Launch

A virtual collaboration resource for researchers, entrepreneurs, and established companies to indicate their interest in specific SBIR/STTR topics or areas. Expected to launch May 2018

OKLAHOMA CATALYST PROGRAMS

TRAINING PROGRAMS



Catalyst Researchers

June-July 2018

The OK Catalyst Researchers program provides twenty $1,900 grants, along with training and mentorship, to graduate students across Oklahoma interested in commercializing their research.



SBIR Reviewers Network

Ongoing

The SBIR Reviewers Network is an opportunity to help review SBIR proposals after being trained in the specific of the SBIR proposal and review process



Catalyst Lectures

Ongoing

The OK Catalyst Lectures introduce SBIR/STTR as a funding opportunity to current students at Oklahoma's main research universities



Catalyst Internship

June-July 2018

The OK Catalyst Internship gives students an opportunity to intern with an SBIR-funded company in Oklahoma

OKLAHOMA CATALYST PROGRAMS

TRAINING PROGRAMS



SBIR Accelerator

May-June 2018 &
August-September 2018

The SBIR Accelerator provides mentorship through the process of submitting an SBIR proposal and provides access to all the resources required to rapidly respond to an SBIR topic. Participants also receive $1000. The 2018 SBIR Accelerator will focus on DoD and NIH.



SBIR Virtual Accelerator

July-August 2018

The SBIR Virtual Accelerator is a partnership with HelloAlice in which Oklahoma-based companies complete the HelloAlice accelerator at a reduced rate, paid for by the Catalyst Programs.

SBIRx

SBIRx helps Oklahoma-based companies with a Phase I SBIR get to Phase II.

SBIRx pairs a student and a faculty/staff member from one of Oklahoma's major research universities with Oklahoma-based companies working in a Phase I SBIR project. The students help these companies through the commercialization process, while the faculty/staff member helps with project management and some technical components of the Phase I SBIR R&D.

PLEASE CONTACT US!

Are you interested in more information about any of our programs? Please reach out to us!

Follow us on social media @ouinnovationhub & @okcatalyst!

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