Research at WSU: NIAR and ORA

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WSU Research Overview (at a glance)

Comparison of Proposals, Awards, and Contracts

*Started tracking contracts not requiring regulatory reporting in FY10
WSU Research Overview (the business side)

Fiscal Year 2012
Indirect Income Generated with
Indirect Income Distributed
Award Type

Types of Awards

GRANTS
ASSOCIATED WITH TRADITIONAL RESEARCH FUNDING

CONTRACTS
ASSOCIATED WITH SERVICE CENTER
ORA Organization / Re-organization

Moved to University Financial Operations

Need to be moved to another reporting structure
The National Institute for Aviation Research provides:

research
certification testing
technology transfer
training

to:
aerospace industry
aviation-related companies
non-aviation companies
federal aviation research sponsors
FY2012 Operating Budget: $45 million

- Industry: 48%
- Federal: 34%
- Aviation Research: 13%
- University: 2%
- KDOC: 2%
Federal Agency Funding

- NASA 10%
- NSF 3%
- FAA 29%
- Navy 14%
- US Air Force 44%

FAA Advanced Materials Budget

$1.00 » $0.78 to WSU
NIAR Staffing

NIAR employs more than 300

167 full/part-time
147 student lab technicians

Employees’ salaries are not state-funded.
Each lab must earn the revenue to maintain its staff
Funding History and Trending with Industry

Yearly Funding (in millions)

- 1997: $10.4
- 1998: $11.2
- 1999: $12.6
- 2000: $15.2
- 2001: $17.2
- 2002: $18.2
- 2003: $18.3
- 2004: $20.2
- 2005: $25.6
- 2006: $35.8
- 2007: $35.3
- 2008: $35.8
- 2009: $39.4
- 2010: $45.4
- 2011: $49.4
- 2012: $45.5

NIAR Locations

- National Center for Aviation Training
- Environmental/DO-160 Test Labs
- Aircraft Structural Test & Evaluation Center @ Kansas Coliseum
- Structural Teardown Aging Aircraft Research facility
- National Institute for Aviation Research

Location:
- Wichita
- Park City
- Augusta
- HBC
- WSU NCAT
NIAR ranks high among the nation’s prestigious universities

Source: National Science Foundation – FY10 - by Aero R & D Expenditures

1. Georgia Institute of Technology
2. Utah State University
3. Wichita State University
4. University of Colorado
5. Texas A&M University
6. University of Maryland
7. Massachusetts Institute of Technology
8. University of Alabama
9. Pennsylvania State University
10. Princeton University
11. New Mexico State University
12. University of Texas
13. University of Michigan
14. Stanford University
15. Purdue University
16. University of Florida
17. Virginia Polytechnic Institute
18. University of Illinois
19. University of Washington
20. University of Tennessee
Technical Thrusts

- Composites & Advanced Materials
- Mechanical Test
- Aging Aircraft
- CAD/CAM
- Full-Scale Structural Test
- Aerodynamics
- Crashworthiness
- Nondestructive Evaluation
- Environmental Test/DO-160
Existing Partnerships: Nation
Existing Partnerships: Kansas

- Wichita
  - McFarland Research & Development, Inc.
  - Aerospace Systems & Components, Inc.
  - AMETEK Advanced Industries Inc.
  - Absolute Calibrations & Consulting Services LLC
  - USB FireWire/RR Business Ventures, LLC
  - AMETEK Advanced Industries Inc.
  - Mid-Continent Instruments and Avionics
  - Leading Technology Composites, Inc
  - Boeing Defense, Space and Security
  - Wescon Products Company
  - Burnham Composites, Inc
  - Harlow Aerostuctures LLC
  - Senior Aerospace Composites
  - Aerospace Systems & Components, Inc.
  - Kaman Aerosolstructures - Wichita, Inc.
  - Airbus North America Engineering, Inc.
  - Hawker Beechcraft Corporation
  - Wichita Area Technical College
  - North American Aviation, Inc.
  - Millennium Concepts, Inc.
  - Koilsman, Inc/Elbit Systems
  - Colin Snyder
  - Envision Industries
  - Aero-Mach Labs, Inc.
  - Bombardier Aerospace
  - Rapid PSI
  - Benecor, Inc
  - EAS Corporation
  - RV Products
  - Benecor, Inc
  - CIBOR Inc.
  - Spirit AeroSystems Inc.
  - The Boeing Company
  - Work Force Alliance
  - J.B. Duerkotte Associates
  - Great Plains Industries, Inc.
  - Goodrich Cabin Systems
  - JR Custom Metal Products
  - Electromech Technologies
  - Cessna Aircraft Textron
  - Bombardier Aerospace
  - Cessna Aircraft Company

- Manhattan
  - ICE Corporation

- Tonganoxie
  - Biomedical Devices of Kansas

- Olathe
  - Garmin International, Ltd.

- Merriam
  - Absolute Computer Solutions

- Hesston
  - AGCO Corporation

- Wellington
  - Triumph Accessory Services
Aircraft Structural Test & Evaluation Center
Future Opportunities

- Emerging Public/Private Partnerships
  - Further engagement with industry (ON CAMPUS)
  - Ability to train students different
- Engineering Design Center
- Expansion of NIAR Research Operations
- Build the next NIAR at WSU - Software Certification and Network Security Center
- Explore more Technology Transfer opportunities with WSU interests