

**David B. Williams, PhD, ScD**  
Monte Ahuja Endowed Dean's Chair  
Dean of The College of Engineering  
The Ohio State University, Columbus, OH 43210

**EDUCATION**

- Sc.D. Faculty of Physics and Chemistry, Cambridge University, U.K., 2001
- Ph.D. Metallurgy and Materials Science, Cambridge University, U.K., 1974
- M.A. Materials Science, Cambridge University, U.K., 1974
- B.A. Materials Science, First Class Honours, Cambridge University, U.K., 1970

**1. ADMINISTRATIVE EXPERIENCE**

- 2012-2019 Executive Dean of the Professional Colleges, The Ohio State University
- 2011-present Dean, The Ohio State University, College of Engineering
- 2007-2011 President, The University of Alabama in Huntsville
- 2000-2006 Vice Provost for Research, Lehigh University
- 1992-2000 Chair, Department of Materials Science and Engineering, Lehigh University
- 1980-1998 Director, Electron Optical Laboratory, Lehigh University

**EXECUTIVE DEAN, THE PROFESSIONAL COLLEGES, THE OHIO STATE UNIVERSITY, 2012-2019**

**PRINCIPAL RESPONSIBILITIES**

- Convene leaders of seven colleges responsible for over 900 faculty and 26,000 students.
- Develop strategies in areas of common interest (e.g. faculty disciplinary processes, professional education)
- Represent the colleges at President/Provost meetings and Senior Management Council
- Co-leader of university-wide diversity initiatives particularly integrating *White Men as Full Diversity Partners* program across the university
- Executive leadership team for OSU Discovery Themes (\$500M investment in new faculty over 5 years)
- Lead Dean in Energy and Environment Discovery Theme (hired >50 new faculty across 8 colleges)
- Member of Energy Academic Collaboration Council (implementing academic portion of \$1.1B Comprehensive Energy Management plan)
- Represent the University on The Business Higher Education Forum (<http://www.bhef.com>)
- Represent the University on the Council on Competitiveness, the Global Council on Competitiveness and the Technology Leadership and Strategy Initiative (<https://www.compete.org>)

**DEAN, COLLEGE OF ENGINEERING, THE OHIO STATE UNIVERSITY, 2011-PRESENT**

**PRINCIPAL ADMINISTRATIVE RESPONSIBILITIES**

- Lead over 950 faculty and staff and >10,500 students
- Responsible for \$290M annual budget
- Set mission, vision and goals for the college; implement the college's strategic plan
- Responsible for transforming diversity and demographics of college faculty
- Managed unprecedented increases in student enrollment, quality and diversity
- Grow long-term partnerships with Battelle, Boeing, Honda, GE Aviation, NetJets, and other major industry partners
- Responsible for education, research and economic development at The Ohio State University Airport
- Chair of the Board of the Transportation Research Center Inc. (2011-present) (<http://www.trcpg.com>)

Board of The Metro Early College STEM School 2011-2019 (Board Chair 2012-2014)

(<https://www.themetroschool.org>)

Global Engineering Deans Council (2016-present)

ASEE Engineering Deans Council (2011-present) Public Policy Committee (2013-present)

Ohio Engineering Deans Council (2011-present)

Chair, Search Committee for Senior Vice President for Research (2018)

Chair, Search Committee for Dean, College of Food, Agricultural and Environmental Sciences (2013)

Member, Search Committee for Dean, College of Food, Agricultural and Environmental Sciences (2016)

Member, Search Committee for Dean, Fisher College of Business (2014)

Faculty Senate and Senate Fiscal Committee member (2011- present)

## **PRINCIPAL ACADEMIC ACHIEVEMENTS**

Changed demographics and diversity of engineering faculty through a concerted program of new faculty hiring and replacing existing faculty. Hired over 150 new/replacement faculty over seven years (>45% women and underrepresented minorities)

Created a diverse leadership team (12 out of 24 are women and underrepresented minorities) at the college level. Over 7 years, appointed or re-appointed chairs/directors of all 12 college academic units, 1 senior associate dean, 5 associate deans, 2 assistant deans, 2 Chief Information Officers, 2 Chief Advancement Officers, 1 Chief of Staff and 1 Chief Diversity and Inclusion Officer.

Grown diversity of both undergraduate and graduate student bodies

Created the Department of Engineering Education and hired first African American female chair in the college's history

Capped undergraduate enrollment at ~8,500 to ensure students get access to faculty and advisors

Managed largest increase in undergraduate enrollment in college history combined with record increase in first-year class quality (average ACT >31)

Created new BS in data analytics with College of Arts & Science and new honors track in Integrated Business and Engineering with Fisher College of Business

Created college's first fully on-line MS degree in Global Engineering Leadership.

New minor in Science, Engineering and Public Policy, joint with the John Glenn College of Public Affairs

Conceived and raised funds for the Neil Armstrong Chair in Aerospace Policy joint with the John Glenn College of Public Affairs.

Joint BS/MS and PhD degree programs with Shanghai Jiao Tong and Xian Jiao Tong Universities

All departments received successive 6 year ABET re-accreditation (2011 and 2017)

Saved the University Airport at Don Scott Field from closure, revived the flight-education program and the Center for Aviation Studies, created the Aerospace Research Center. Partnered with NetJets for new chair in Next-Gen air traffic control and gift of Seven Cessna 172s.

Facilitated creation of the nation's best materials center for electron microscopy & analysis (CEMAS)

Partnered in largest research award (\$148M) to OSU creating The American Lightweight Materials Manufacturing Innovation Institute (ALMMII) (focused on automotive and aerospace manufacturing) with EWI and the University of Michigan

Hired first non-academic (entrepreneur) head of a research center (Center for Design & Manufacturing Excellence)

Best fundraising year in College history (2015-\$67M); total of \$350M over last seven years

Managed annual increases in budget and maximum faculty/staff pay raises each year

Record years in terms of invention disclosures, patenting, licensing and small business creation (22 in 2017-18)

Master agreements executed with Honda and Boeing  
Partnered with VP Research to build a Proposal Business Development Center, attracting program leaders from Battelle, Huntsville, AL and DARPA  
Created high profile, diverse External Advisory Council including CEOs and VPs of major partner companies (e.g. AEP Ohio, Aera Energy, Battelle, Boeing, Box, Columbus2020, GE Aviation, Honda North America, Huntington Bank, IBM, Lincoln Labs, LyondellBasell, National Academy of Engineering, P&G, Parker Hannifin)  
Successfully mentored 8 direct reports who have moved up to greater roles:  
Mary Juhas, now Associate VP for Gender Initiatives in STEM at OSU  
Dan Kramer, now Associate VP for Industry Liaison at OSU  
Jennifer Evans Cowley, now Provost, University of North Texas  
Matt McNair, now President, Oregon Health and Science University Foundation  
Scott Osborne, now interim VP for Corporate Engagement and Outreach at OSU  
Mike Benzakein, now Associate VP for Aerospace and Aviation at OSU  
Randy Moses, now Senior AVP for Research at OSU  
Rudy Buchheit, now Dean of Engineering, University of Kentucky

#### **INFRASTRUCTURE**

Chemical & Biomolecular Engineering & Chemistry building completed and opened, 2015  
\$69M committed to SMART mobility center at TRC, 2017 (State, University and College)  
\$12M committed to Route 33 Smart Corridor, 2017 (Federal, State and Local)  
\$140M Honda commitment to wind tunnel at TRC, construction commenced 2017  
\$20M Honda commitment to antenna facility at TRC (designed with ESL faculty)  
Building 40G secure network to move data between units and the Ohio Supercomputing Center  
Raised funds for new \$15M terminal/flight education facility at The Ohio State Airport at Don Scott Field, 4 new T-hangars for 50 small planes constructed, new corporate hangars constructed 2019  
CDME conceived, planned and opened, 2017 (<https://cdme.osu.edu>)  
First phase of Biomedical & Materials Engineering Complex, \$59M, ground breaking November 2018  
Initiated plans to double size of CEMAS for bio/medical cryo microscopes

#### **LOCAL, REGIONAL, POLITICAL AND ECONOMIC DEVELOPMENT RESPONSIBILITIES**

Strong relationships with key members of Ohio delegation in DC and the Ohio House and Senate  
Board of One Columbus (<https://columbusregion.com/onecolumbus/>)  
Board of Ohio Aerospace and Aviation Council 2012-2019 (<http://ohioaerospacestrategy.org>)  
Board of The Ohio Aerospace Institute, 2012-2015 (<http://www.oai.org>)  
Advisory Board of The Ohio Third Frontier 2013-2017 (\$2.1B initiative to transform existing industries and create new industries) ([https://development.ohio.gov/bs\\_thirdfrontier/](https://development.ohio.gov/bs_thirdfrontier/))  
Member, Ohio Aerospace & Aviation Technology Committee (<http://www.aerospaceandaviation.ohio.gov>)  
Board President, The Transportation Research Center ((<http://www.trcpg.com>))  
Board of LIFT; Lightweight Innovations for Tomorrow (\$148M/5 years) (White House initiative to create national manufacturing hubs) (<https://lift.technology>)  
Board of EWI (former Edison Welding Institute) (2012-2016) (<https://ewi.org/about/>)  
Worked with Ohio House and Senate leadership to create the Ohio Federal Military Jobs Commission

(<http://www.ong.ohio.gov/OFMJC.html>) and the Federal Research Network (<https://www.ohiofrn.org>)  
Received >\$30M from the State, leveraged > \$100M in external awards to support university research in partnership with Wright Patterson Air Force Base and NASA Glenn

## **5<sup>TH</sup> PRESIDENT, THE UNIVERSITY OF ALABAMA IN HUNTSVILLE, 2007-2011**

### **PRINCIPAL RESPONSIBILITIES**

Leader, 1200 faculty and staff, 7700 students

\$180M annual budget

Worked with Presidents of Alabama-Tuscaloosa and Alabama-Birmingham as part of UA system

Reported to the Chancellor of the UA system and the UA Board of Trustees

Developed and implemented the first university strategic plan. Crafted strategic mission statement and “Power of Ten” goals for academic growth.

Built partnership with the US Army’s Redstone Arsenal, NASA Marshall and Cummings Research Park (the largest aerospace and defense industrial park in the USA)

### **PRINCIPAL ACHIEVEMENTS**

Led UAHuntsville into Carnegie Foundation ‘very high research activity’ classification (smallest out of 75 public universities in that category)

Research expenditures grew from \$63M (2006-07) to \$100M (2011-12) reaching our Power of Ten goal; the most expenditures for any public university of our size

Appointed Delois Smith, the university’s first African-American female VP (for Diversity & Inclusion)

Charted a course through the nation’s largest reduction (30%) in state appropriations in 2009

Continued growth in cash reserves, academic programs, research awards and expenditures, student numbers and quality, corporate and personal donations during the recession

Over \$110M in construction and renovation of academic buildings and student residences

Rebuilt the Advancement Office from scratch, increasing all fundraising metrics

Re-branded UAH as UAHuntsville building on visibility of Huntsville’s NASA-Marshall, Redstone Arsenal, Cummings Research Park and the US Space and Rocket Center and Space Camp

Maintained lowest tuition/fees/housing/meals/parking costs of all peer AL universities

Ranked by USNews among top 25 “most popular” research universities

Ranked by USA Today/Princeton Review as #22 “best value” university in the nation

Managed the aftermath of an unprecedented on-campus shooting of five faculty and staff

Built first international partnerships with Universität Rostock (Germany) and CATHALAC (Panama)

Raised the quality of commencement speakers and campus visitors including:

- James Cartwright (Vice Chair of the Joint Chiefs of Staff)
- Michael Griffin (former NASA Administrator, now Undersecretary of Defense for Research & Engineering)
- Kristina Johnson (Deputy Undersecretary for Energy, now Chancellor, SUNY System))
- Abdul Kalam (former President of India)
- Lisa Porter (IARPA Director)
- Harrison (Jack) Schmitt (Moonwalker)
- Neil deGrasse Tyson, (celebrity astrophysicist)
- Tom Wolfe (author of “The Right Stuff”)

### **LOCAL, REGIONAL, POLITICAL AND ECONOMIC DEVELOPMENT**

Strong relationships with congressional delegations in Alabama and Tennessee  
Board of Tennessee Valley Corridor: hosted the fall 2010 TVC meeting on campus  
Established offices of national organizations at UAHuntsville:

- Oak Ridge National Laboratory - ORNL has offices on only one US campus
- Savannah River National Laboratory
- Y-12 National Security Complex

Partnered with Pratt & Whitney Rocketdyne in their first campus “skunk works”

Led a team of defense-contractor CEOs, NASA Marshall Director, and Huntsville Chamber of Commerce to persuade Redstone Arsenal commanding generals to revise US Army/DoD rules to permit hiring of graduates, co-ops and interns on federal contracts. Extended the agreement to the Missile Defense Agency, the Army Aviation and Missile Command and the Space and Missile Defense Command

Opened a branch of the Alabama Development Office (ADO) on campus:

- Played a role with ADO in bringing Raytheon Missile Systems to Huntsville
- Increased university’s role in Alabama Technology Roadmap, directed via ADO

Founder member of the Alabama Innovation Council

Elected to the Alabama Business Council

#### **FEDERAL/STATE RELATIONS**

Worked with Van Scoyoc Associates, Alabama Senators and members of House in D.C.

Raised \$15.8M from DOD, NOAA, NASA, DOT, DOE to enhance research

Secured a \$25M state/federal grant/appropriation through direct negotiations with Governor Riley and Senator Shelby, to build a new Center for Complex Systems

Coordinated a team proposal (NASA-Marshall, Redstone Arsenal, ORNL, NRL) to re-locate NSF’s National Solar Observatory Directorate to Huntsville

Secured a \$15M state economic-development commitment from Governor Riley and Governor-elect Bentley, to house the National Solar Observatory Directorate

Built a partnership with the German Aerospace Center (Deutsches Zentrum für Luft und Raumfahrt (DLR)) to foster international space cooperation in Huntsville

#### **TECHNOLOGY TRANSFER**

MOU signed between UAHuntsville and Biztech (private incubator facility)

Hired first Director of Office of Technology Commercialization

Co-founded Technology Innovation Council with Huntsville Chamber of Commerce

First community-wide entrepreneurship workshop to broaden base of start-up companies

#### **FUNDRAISING**

Average annual corporate gifts increased by 150% from 07-10 compared to 2000-07

First \$1M gift received in the last decade

Increased major donors by 20% compared to sum of previous 45 years

Aggregate increase of 75% in value of annual gifts from major donors compared to 2006

Over 2000 university/community visitors hosted annually at the Lowe House

Ten corporate alumni chapters opened on Cummings Research Park and Redstone Arsenal

#### **COMMUNITY LEADERSHIP**

Gubernatorial appointment to Board of Alabama Space Science and Education Council

Executive Board of Chamber of Commerce of Huntsville-Madison County

Board of the Huntsville Botanical Gardens  
Board of Huntsville Committee of 100  
Board of United Way of Madison County  
Huntsville Rotary Club

## **VICE PROVOST FOR RESEARCH, LEHIGH UNIVERSITY, 2000-2006**

### **PRINCIPAL RESPONSIBILITIES**

Develop and grow university research expenditures  
Initiate and create partnerships with other universities, local and national industries  
Work with Government Relations to obtain appropriations from federal and state governments to increase research and economic development

### **PRINCIPAL ACHIEVEMENTS**

Created Office of the VPR (Associate VPR, two Program Developers, 1.5 Staff)  
Defined University's 5-year research strategy and VPR goals  
Created Commonwealth of PA's Research Advisory Council, comprising VPRs from Carnegie Mellon, Drexel, Lehigh, Penn, Penn State, Pitt and Temple  
Research expenditures rose >80% from ~\$26M in 99-00 to ~\$48M in 05-06; indirect-cost returns rose from ~\$4M in 99-00 to ~\$7M in 05-06

### **LOCAL/REGIONAL ECONOMIC DEVELOPMENT**

Executive Board of the Ben Franklin Technology Partnership of NE PA: BFTP offers early-stage investment and incubator space. Built TechVentures1, the largest incubator in PA; in 2010 it was almost doubled in size with the building of TechVentures2  
Executive Board of the Life Science Greenhouse of Central PA creating entrepreneurial partnerships between universities and life-science industries  
Executive Board of the Da Vinci Discovery Center (DVDC) which serves 45,000 students annually in 25 school districts in PA and NJ  
Implemented the first Keystone Innovation Zone proposal with BFTP, Lehigh Valley Economic Development Corporation, City of Bethlehem and other local organizations  
Coordinated eight Lehigh industrial-liaison officers, responsible for >130 industrial research programs; synchronized industrial outreach with Office of Corporate Relations  
Board Member, Electron Energy Corporation, Landisville, PA

### **TECHNOLOGY TRANSFER**

Established Office of Technology Transfer, Entrepreneurial Research and Education and raised \$2.2M to staff and run the Office.  
Hired Office Director, Professor of Practice in entrepreneurship and staff assistant  
Created advisory board (30 alumni with entrepreneurial/venture capital background)  
Generated licensing agreements, invention disclosures and patent applications at or above the national average for universities of similar size, within the first year of operation  
Created Lehigh's IP policy  
Created Lehigh "Venture Capital" fund for faculty writing SBIR and STTR proposals.  
Created faculty committee to re-vamp university conflict of interest policy.

### **FEDERAL/STATE APPROPRIATIONS**

Coordination of federal appropriations agenda with Van Scoyoc Associates in D.C.

Coordination of state appropriations agenda with Stevens and Lee in Harrisburg  
Pennsylvania Infrastructure Technology Alliance: partnership of NSF Engineering Research Centers at Lehigh and Carnegie Mellon; \$25M PA appropriations 00-06  
Started NASA appropriations initiative: visits to NASA headquarters; NASA Ames, Goddard, Langley and Glenn; partnership agreement with Goddard, 6/05. NASA appropriation of \$4M in 06/07 with nanocharacterization / nanomaterials theme  
Total federal appropriations 2000-06: \$25M. Total state appropriations 00-06: \$46M

**DEVELOPMENT ACTIVITIES**

Solicited Peter and Ada Rossin's lead-trust gift of \$25M to endow Lehigh's College of Engineering and Applied Science. Until 2009, this was the single largest donation in Lehigh's history  
Secured \$2M endowed Chair from The Loewy Foundation  
Endowed Chair for the Director of the Center for Optical Technologies (>\$3M) in 2002 and >\$4M for the construction of Smith Family Laboratory to house the Center in 2004

**OTHER LEHIGH ACADEMIC ADMINISTRATION ACTIVITIES (EXCLUDING VP RESEARCH)**

Chair, Materials Science and Engineering: hired eight faculty, tenured six (three junior, three senior). Four junior professors won NSF NYI or Career Awards and one a Presidential Early Career Award in Science and Engineering. Senior faculty attracted from Columbia, Illinois (Urbana-Champaign), RPI, Stevens, including former MRS and MSA Presidents

Director, Electron Optical Laboratory; external funding for nine instruments (replacement value >\$8M) including ~\$1.2M from industrial consortium

Principal Lehigh committees: Co-Chair, Presidential Search Committee, Dean of Engineering Search Committee, Provost's Council, Dean's Council, Department Chairs' Committee, University Priorities and Progress Committee, University Research Council