

Jaime R. Taylor, Ph.D.

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ACADEMIC DEGREES

Ph.D. in Engineering Science, 1995.

University of Tennessee Space Institute, Tullahoma, TN

M.S. in Engineering Science, 1991.

University of Tennessee Space Institute, Tullahoma, TN

B.S. in Physics and Mathematics; Minor: Chemistry 1990.

Austin Peay State University, Clarksville, TN

A.A.S. in Industrial Engineering Technology, 1986.

Nashville State Technical Institute, Nashville, TN

PROVOST APPOINTMENTS

Provost and Senior Vice President for Academic Affairs, 2018-Present

Marshall University, Huntington, WV

The role of provost and senior vice president for academic affairs at Marshall University encompasses a large majority of university operations. The vice president for research, the vice president for student and intercultural affairs, the associate provost, three associate vice presidents, nine academic deans, the dean of admissions and enrollment services, and the new Division of Aviation all report directly to the provost. Thus, Academic Affairs manages 564 full-time faculty and 370 staff/administrators that report up through the provost's office. The provost is responsible for \$97.5M in academic expenditures and slightly over \$50M in research expenditures.

- Implemented a program we titled *A Friend at Marshall (FAM)* in my second year that increased freshman Fall to Fall retention 5.0%.
- Developed and implemented a plan that increased the six-year graduation rate from 46% to 49% in my first year. The success of this project resulted in an individual donating \$800,000 to support further student success initiatives. The six-year graduation rate increased to 51% for Fall 2020 (during the COVID19 pandemic), the first time Marshall University has had a six-year graduation rate that exceeds 50%.
- Created the vision and led the development of completely integrating the divisions of Student Affairs, Intercultural Affairs and International Student Programs. This seamless system significantly increased overall student success outcomes, gave rise to new avenues for diversity based programs and resulted in the creation of a new Intercultural Center on campus.

- Developed and implemented a recruitment plan in my first year that resulted in the largest freshman class increase in the State of West Virginia. Only three of the eleven public universities had an increase, five had a double digit percentage decrease.
- Provided the leadership for the development of a bachelors degree for fixed-wing flight training and an aviation maintenance program. Obtained a total of \$4.56 million in grants to use as startup funds for these two programs.
- Provided extensive support to the Vice President for Research, who reports to the Provost, to grow research expenditures. Research expenditures grew from \$32.2 million in FY 2018 to over \$50 million in FY 2020, a 55.3% increase in two years, contributing to Marshall University achieving R2 Carnegie Classification.
- Worked closely with the Senior Vice President for Development as the university secured \$50.6 million in gifts during my first year at Marshall University, a 61% increase from the previous year.
- Oversaw the collaboration between the Vice President for Research and the Dean of the College of Business in the development of a Business Incubator and a Center for Entrepreneurship and Innovation.
- Led the development of Master's degree programs in cybersecurity, digital forensics, data science, and a doctorate of business administration (DBA). Helped obtain a \$4.5 million grant from Homeland Security for the digital forensics program. Encouraged and supported adding fully online options for our MBA and MS in Accounting.

Interim Provost and Vice President for Academic Affairs, 2013-2015

Austin Peay State University, Clarksville, TN

(Did not apply for Provost position.)

- My strong commitment to transparency and integrity resulted in APSU making the Honor Roll of the Chronicle of Higher Education's *Great Colleges to Work for* survey being recognized for *Confidence in Senior Leadership* and *Collaborative Governance* both years I served as Interim Provost. There were only ten *Large Colleges* that made the Honor Roll in 2015 including Baylor, Duke, University of Southern California, University of Maryland and University of Michigan.
(<http://www.chronicle.com/interactives/greatcolleges15#id=hr>).
- Led an effort to reimagine APSU's recruitment strategies. This led to APSU experiencing a record 26.3% growth in its freshman class (1,554 in 2015 to 1,962 in 2016) after the first year of implementing the new recruitment plan.
- Increased fall to fall freshman retention by 5.9% for 2013 freshman cohort, and by 9.2% for 2013 Black freshman cohort. This success was obtained through various initiatives, one being a mentorship program developed in the African Culture Center.
- Developed and implemented strategies to make sure APSU remained the leader in the State of Tennessee's Outcomes Funding Formula.

ADMINISTRATIVE AND ACADEMIC APPOINTMENTS

Dean, College of Science, Technology, Engineering, and Mathematics, 2015-2018 Austin Peay State University, Clarksville, TN

- Spearheaded the effort to add multiple new degree programs at both the undergraduate and graduate level including APSU’s first engineering program, a bachelor degree in veterinary technology, and bachelor and master degrees in cybersecurity.
- Nearly doubled the number of high achieving students (those with a 26 or higher on the ACT) entering the college from Fall of 2012 to Fall of 2016.
- More than doubled the number of graduates in four departments within college, and quadrupled number of graduates in two departments; increased number of computer science graduates from 17 in 2009-2010 to 88 graduates in 2016-17. This was accomplished through improved recruitment efforts and student success initiatives to improve the graduation rate in these programs.
- Served as a member of the Transition Taskforce that oversaw APSU’s transition away from the Tennessee Board of Regents to its own Governing Board.
- Added a mechatronics program in engineering technology, a program crucial to the rapid growth in manufacturing in Middle Tennessee and Southern Kentucky. Obtained two grants (\$578,631 and \$60,000) for equipment and faculty training. More than doubled the number of incoming freshmen in engineering technology, increasing to over 100.

Dean, College of Science and Mathematics, 2008-2013 Austin Peay State University, Clarksville, TN

- Increased the number of students obtaining Bachelors in the College of Science and Mathematics (CoSM) by 104% (141 in 2009 to 288 in 2014), while the university as a whole increased by 29%, (964 in 2009 to 1244 in 2014). Note, Tennessee has a 100% outcomes based funding formula; APSU is funded on its number of graduates, not number of students.
- Grew the enrollment in the CoSM by over 30%, and the college produced its first four Barry Goldwater Scholars, two of whom were in the inaugural Governor’s School for Computational Physics class.
- Assisted the Department of Agriculture in raising \$1.2 million to fund the Brock Blick Animal Science Facility.
- Lead the effort to develop a Professional Science Master’s degree in Computer Science and Quantitative Methods with concentrations in Data Management and Analysis, Predictive Analytics, Cyber-Security, and Mathematical Finance.
- Steadily increased the number of grants awarded to the CoSM from 23 in 2010-11 to 45 in 2014-15. The most grants awarded to any other college during this period of time was 9, with the average number of grants per college per year (excluding the CoSM) being less than 3.

- Obtained THEC and TBR approval for a Chemical Engineering Technology (ChET) program, assisted in obtaining \$6.4 million in special appropriations from the State of Tennessee for a ChET facility, \$2 million from Hemlock Semiconductor for laboratory equipment, and \$200,000 in federal funding for an instructor and industrial software. Achieved our goal of graduating over 90 ChET students in the first year’s graduating class.

Co-Director of the Governor’s School for Computational Physics, 2013-2017

Director of the Governor’s School for Computational Physics, 2008-2013

Austin Peay State University, Clarksville, TN

- Worked with regional State Representatives to help APSU secure funding for its first Governor’s School.
- Team taught for five weeks each summer with the Chair of the Department of Physics.

Chair, Department of Physics and Astronomy, 2000-2008

Austin Peay State University, Clarksville, TN

- Increased the number of physics majors from 8 to over 50 in three years, resulting in APSU having the largest undergraduate physics program in the State of Tennessee.
- Increased the number of physics graduates from one in 2000-2001 to fifteen in 2008-2009.
- Developed a culture where all physics majors participated in research, with nearly all being accepted to at least one REU program prior to graduation.

Professor of Physics, 2002-2018

Austin Peay State University, Clarksville, TN

- Taught several specialized courses, such as Image Processing, to improve the physics graduates’ success rate in graduate school.
- Used clickers in conceptual physics class to improve “Peer Instruction” method.

Associate Professor of Physics, 1999-2002

Austin Peay State University, Clarksville, TN

- Developed a 3+2 Dual Degree Program in physics and engineering with the University of Tennessee at Knoxville.

Assistant Professor of Physics, 1996-1998

Austin Peay State University, Clarksville, TN

- Spearheaded the move to a new “applied” physics major with several options.

RESEARCH APPOINTMENTS

NASA Faculty Fellow, Summer 2001 and 2002
NASA's Marshall Space Flight Center, Huntsville, AL

- Applied a genetic algorithm code to solve Phase Retrieval problem.
- Developed a code to model the static and dynamic behavior of tensegrity structures.

Research Sabbatical, Spring 1999
U.S. Army Aviation and Missile Command Redstone Arsenal, Huntsville, AL

- Worked with the inventor of Pulsed Coupled Neural Networks (PCNN) on military and space based PCNN applications.
- Work completed during this semester resulted in five publications.

NASA Faculty Fellow, Summer 1996 and 1997
NASA's Marshall Space Flight Center, Huntsville, AL

- Developed a "fast" algorithm for CCD based sunspot tracking.
- Designed and developed the hardware to implement a "fast" sunspot tracking algorithm.

SELECTED AWARDS

Honored as Austin Peay State University's "Outstanding Alumni" - 2014.

Achievement Award presented by the APSU Foundation for efforts to "enhance the APSU Physics Program and the entire University" - 2008.

Award for Innovative Excellence in Teaching, Learning and Technology - 2007.

Socrates Award (Outstanding Teacher Award) - APSU - 1998.

Selected by APSU students as Alumni member of Omicron Delta Kappa - 1998.

"Best Paper" 4th European Symposium on Electromagnetic Launch Technology (more than 100 papers presented by scientists from nine countries) 1993.