

Wesley Collins, PhD

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Education

Doctor of Philosophy – Construction Management (2015)

Arizona State University – Ira A. Fulton Schools of Engineering – Del E. Webb School of Construction

Master of Business Administration (2012)

Bowling Green State University – Allen W. and Carol M. Schmidthorst College of Business

Master of Technology Management – Construction Management (2012)

Bowling Green State University – College of Technology, Architecture & Applied Engineering

Bachelor of Science – Construction Management (2003)

East Carolina University – College of Engineering and Technology

Higher Education Work Experience (2011 to Present)

Associate Professor (with tenure) - August 2021 to Present

Assistant Professor - August 2015 to July 2021

Auburn University, McWhorter School of Building Science, College of Architecture, Design and Construction

Research Associate - May 2013 to July 2015

Arizona State University, Del E. Webb School of Construction, Ira. A. Fulton Schools of Engineering

Adjunct Instructor - August 2012 to May 2013

Bowling Green State University, Department of Construction Management, College of Technology, Architecture & Applied Engineering

Teaching and Research Assistant - August 2011 to August 2012

Bowling Green State University, Department of Management - College of Business

Construction Industry Professional Experience (1999 – 2010)

Project Manager - July 2007 to April 2010

HC³ Construction, Ltd., Dayton, Ohio

Assistant Project Manager - July 2004 to June 2007

Miller-Valentine Construction, LLC, Cincinnati, Ohio

Assistant Project Manager - May 2003 to July 2004

Citadel Contractors, Apex, North Carolina

Estimator - October 2000 to May 2003

Allen Painting Contractor, Greenville, North Carolina

Assistant Project Manager (Intern) - September 1999 to May 2000

Miller-Valentine Construction, LLC, Dayton, Ohio

Selected Honors and Awards

Year	Honor/Award	Awarding Body
2025	International Outstanding Researcher Award	Associated Schools of Construction
2024	Mark Hasso Educator of the Year Award	Construction Management Association of America
2024	Best Journal Paper Award	Int. Journal of Construction Education and Research
2024	Faculty Excellence Teaching Award	McWhorter School of Building Science
2023	Faculty Excellence Teaching Award	McWhorter School of Building Science
2022	International Outstanding Educator Award	Associated Schools of Construction
2022	Regional Outstanding Educator Award	Associated Schools of Construction, Region 2
2021	Faculty Research Award	McWhorter School of Building Science
2019	Faculty Excellence Teaching Award	McWhorter School of Building Science
2018	Regional Teaching Award	Associated Schools of Construction, Region 2
2017	Faculty Excellence Teaching Award	McWhorter School of Building Science
2015	Outstanding Research Assistant Award	Construction Industry Institute (CII)
2003	Inductee	Sigma Lambda Chi - Iota II chapter - ECU

External Funding - Received

Name of grant	Funding source	Years of funding	Total Amount	Percent of effort	Personal Amount
Auburn Timber Collaborative	US Forest Service	2023-2025	\$598,993	17%	\$101,829
Affordable, Accessible Housing Solutions for AIP and People with Disabilities	US Department of Housing and Urban Development (HUD)	2017-2021	\$633,949	33%	\$209,203
Construction Site Logistics Planning	Associated General Contractors of America	2017-2018	\$9,000	50%	\$4,500
Totals			\$1,241,942		\$315,532

External Funding – Applied for but Not Received

Name of grant	Funding source	Year Submitted	Total Amount
Enhancing Alignment and Communication of Business Drivers	Construction Industry Institute (CII)	2025	\$265,000
Implementation of CII Best Practices for Small Projects	CII	2024	\$200,000
Buildings Energy Efficiency Frontiers & Innovation Technologies	US Department of Energy (DOE)	2024	\$2,000,000
Buildings Energy Efficiency Frontiers & Innovation Technologies	DOE	2021	\$750,000
A Study of U.S. Roofing Industry and its Workforce	National Roofing Contractors Association	2018	\$69,763
Totals			\$3,284,763

Internal Funding Received from the Auburn U. College of Architecture, Design, and Construction

Name of Grant	Years of Funding	Total Amount	Percent of Effort	Personal amount
Developing an agentic AI System for Mass Timber Design and Construction: Phase I	2025-2026	\$15,246	50%	\$7,623
Developing an agentic AI System for Mass Timber Design and Construction: Phase II	2025-2026	\$8,000	50%	\$4,000
Current state of construction field-related software ecosystems	2023-2024	\$11,305	100%	\$11,305
Archival analysis of cost estimator role as depicted in the Occupational Outlook Handbook	2022-2023	\$5,000	100%	\$5,000
Can Autodesk BIM capabilities be leveraged to improve Front Porch Initiative workflows?	2022-2023	\$20,000	60%	\$12,000
Mass timber & potential to advance construction industry in Alabama	2022-2023	\$12,880	50%	\$6,440
Development of academic case studies for best value selection, and benefit/discriminator pairs	2021-2022	\$5,000	100%	\$5,000
Determining how field-related technology incorporation is assessed during preconstruction	2021-2022	\$7,383	100%	\$7,383
Development of a Preconstruction Advisory Board for the McWhorter School of Building Science	2020-2021	\$6,232	100%	\$6,232
Development of Academic Case Studies Pertaining to Real Estate Development	2019-2020	\$6,323	100%	\$6,323
Examination of current and future trends in site development for enhancement of young professionals' knowledge prior to entering the construction industry	2019-2020	\$14,173	37%	\$5,234
Investigation of estimating software usage and estimating data management strategies in commercial construction companies	2018-2019	\$12,918	50%	\$6,459
Healthcare construction: current trends and future opportunities	2017-2018	\$11,759	100%	\$11,759
Integration of mobile technologies into undergraduate curriculum	2017-2018	\$13,146	34%	\$4,338
Cost analysis of construction projects at Auburn University	2016-2017	\$11,484	100%	\$11,484
Cost and change category analysis of change orders on large capital projects at Auburn University	2015-2016	\$8,498	100%	\$8,498
Developing a computer-based tutorial and interactive assessment study tool for cost estimating, value engineering and life cycle costing to prepare for Architectural Registration Exam	2015-2016	\$8,900	50%	\$4,450
Totals		\$178,247		\$123,528

Editorial Roles and Publications

Year	Role	Publication
2026	Editor	Proceedings of the Associated Schools of Construction Annual Conference. <i>Hosted by California Polytechnic State University</i>
2025	Editor	Proceedings of the Associated Schools of Construction Annual Conference. <i>Hosted by Southern Alberta Institute of Technology</i>
2024	Lead Guest Editor	20 th Anniversary Special Issue of the International Journal of Construction Education and Research (IJCER) - Application of Research Methodologies in Construction Education-Focused Studies
2024	Associate Editor (transitioned to Editor)	Proceedings of the Associated Schools of Construction Annual Conference. <i>Hosted by Auburn University, Auburn, Alabama.</i>
2023	Associate Editor	Proceedings of the Associated Schools of Construction Annual Conference. <i>Hosted by Liverpool John Moores University, Liverpool, England.</i>
2022	Associate Editor	Proceedings of the Associated Schools of Construction Annual Conference. <i>Hosted by Georgia Institute of Technology, Atlanta, Georgia.</i>
2021	Associate Editor	Proceedings of the Associated Schools of Construction Annual Conference. <i>Hosted virtually by California State University, Chico, Chico, California.</i>
2020	Associate Editor	Proceedings of the Associated Schools of Construction Annual Conference. <i>Hosted virtually by Liverpool John Moores University, Liverpool, England</i>
2020	Construction Estimating, Scheduling, Economics, and Controls track co-chair	Construction Research Congress Bi-Annual Conference <i>Hosted by Arizona State University, Tempe, Arizona.</i>

Academic Journal Articles

1. **Collins, W.**, Salman, A., Olbina, S., and Mosier, R. (2024). "Review of Research Methodologies on Construction Education Focused Publications in the International Journal of Construction Education and Research – 2004 - 2023." *International Journal of Construction Education and Research* 20(4) 383-404.
2. Alathamneh, S., **Collins, W.**, and Azhar, S. (2024). "BIM-Based Quantity Takeoff: Current State and Future Opportunities." *Automation in Construction*. 165 (2024) 105549.
3. Simons, A., Redden, L., and **Collins, W.** (2022). "Sitework knowledge for entry-level construction professionals: academic and industry perceptions." *International Journal for Construction Education and Research*, 19(2), 199-220.
4. **Collins, W.**, and Redden, L. (2020). "Improving student's estimating abilities through experiential learning." *International Journal for Construction Education and Research*, 17(2), 117-132.
5. **Collins, W.**, Parrish, K., and Gibson, Jr., G.E. (2017). "Development of a project scope definition and assessment tool for small industrial construction projects." *ASCE Journal of Management in Engineering*. 133(4).
6. Zsidisin, G., Hartley, J., and **Collins, W.** (2013). "Integrating student projects with real-world problems: the case of managing commodity price risk." *Supply Chain Management: An International Journal*, 18 (4), 389-397.

Research Reports

1. Miller, J., **Collins, W.**, and Tzeng, S. (2021). ADAPT: Designs for Aging in Place. *Final report for U.S. Department of Housing and Urban Development grant FR-6000-N-29.*
2. Redden, L., and **Collins, W.** (2020). Construction Estimating Software Usage and Cost Data Management Practices of Contractors. *Final report for American Society of Professional Estimators.*
3. **Collins, W.**, Parrish, K., and Gibson Jr., G.E. (2016). "Development of the project definition rating index for small industrial projects." *Construction Industry Institute (CII), Research Report 314-11.*

Academic Conference Proceedings Papers

1. Jebarah, I., **Collins, W.**, and Alathamneh, S. (2026). "Mapping ASC Annual Conference Publications (2007-2025): A Descriptive Bibliometric Study." *Associated Schools of Construction Annual Conference, Hosted by the California State Polytechnic Institute, San Luis Obispo, California. (Accepted for Publication)*
2. Alathamneh, S., and **Collins, W.** (2026). "Leveraging Generative AI for Asynchronous Learning in Construction Education: A Pilot Case Study on BIM-Based Quantity Takeoff." *Construction Research Congress Conference, San Antonio, Texas. (Accepted for Publication)*
3. Alathamneh, S., **Collins, W.**, Sands, K., Leathem, T., and Liu, J. (2025). "Artificial Intelligence and Building Information Modeling: Applications, Challenges, and Future Opportunities." *CIB World Building Congress Conference, West Lafayette, Indiana.*
4. Alathamneh, S., and **Collins, W.** (2025). "Evaluating Software Ecosystems in Large-Scale Commercial Construction Projects and Implications for Construction Management Education." *Associated Schools of Construction Annual Conference, Hosted by the Southern Alberta Institute of Technology.*
5. Jafari, F., and **Collins, W.** (2025). "Mass Timber Education in U.S. Construction Programs: Current State and Future Needs." *Associated Schools of Construction Annual Conference, Hosted by the Southern Alberta Institute of Technology.*
6. **Collins, W.**, and Alathamneh, S. (2024). "Occupational Outlook Handbook description of construction cost estimator-related occupations, 1949 to present." *Construction in the 21st Century International Conference, Rio de Janeiro, Brazil.*
7. Jafari, F., and **Collins, W.** (2024). "Mass Timber in Construction: A Bibliometric Network Analysis and Qualitative Review of Trends, Challenges, and Opportunities." *Construction in the 21st Century International Conference, Rio de Janeiro, Brazil.*
8. Alathamneh, S., Liu, J., **Collins, W.**, and Holley, P. (2024). "Innovations In Drywall Installation Through Integrating Terrestrial Laser Scanning (TLS) And Building Information Modeling (BIM)." *Construction in the 21st Century International Conference, Rio de Janeiro, Brazil.*
9. **Collins, W.**, and Miller, J. (2024). "Home modification design and construction strategies for aging in place: contractor and designer implementation perspectives." *Residential Building Design & Construction Conference. Hosted by the Pennsylvania Housing Research Center, University Park, Pennsylvania.*
10. Salman, A., Peacock, W., and **Collins, W.** (2024). Supply Chain Issues in Construction due to COVID-19: Challenges and Resilience Strategies from an Owner's Perspective. *Associated Schools of Construction Annual Conference, Hosted by Auburn University.*
11. Redden, L., and **Collins, W.** (2023). "Investigation of Cost Data Management Practices in the U.S. Construction Industry." *Associated Schools of Construction Annual Conference, Hosted by Liverpool John Moores University.*
12. **Collins, W.**, and Redden, L. (2022). Assessing industry estimating software utilization practices to improve construction education. *Associated Schools of Construction Annual Conference, Hosted by Georgia Institute of Technology.*

13. McCall, C., **Collins, W.**, Azhar, S., and Leousis, K. (2021). Expectations, Challenges, and Motivations for Early Career Faculty Who Transitioned from Industry to Academia: A Literature Review. Associated Schools of Construction Annual Conference, *Virtual, Hosted by California State University at Chico*.
14. Simons, A., **Collins, W.**, and Redden, L. (2021). Site Development Knowledge for Entry-Level Construction Professionals: Academic Perceptions. Associated Schools of Construction Annual Conference, *Virtual, Hosted by California State University at Chico*.
15. McGuirk, K., Sattineni, A, and **Collins, W.** (2020). Effective Use of United States Foreign Aid to Fund Infrastructure Projects. *Proceedings of the Creative Construction e-Conference*.
16. Kim, J., **Collins, W.**, Taylor, J., Miller, J., and Donnerberg, J. (2020). Design Practitioner’s Insights Regarding the Use of Co-Location in Design-Build. *Associated Schools of Construction Annual Conference, Liverpool, England*.
17. **Collins, W.**, Kim, J., Taylor, J., Miller, J., and Donnerberg, J. (2020). “Co-location during design and construction of design-build projects: the general contractor’s perspective. *Construction Research Congress 2020, Tempe, Arizona*.
18. **Collins, W.**, Holley, P., Chavan, A., and Sattineni, A. (2019). General contractor Knowledge of Infection Control Requirements on Hospital Renovation Construction Projects. *Construction in the 21st Century International Conference, London, England*.
19. **Collins, W.**, Kim, J., Redden, L., and Herlong, J. (2019). “Mobile device utilization in classes by faculty of ASC-Member and ACCE-Accredited Construction Programs. *Associated Schools of Construction Annual Conference, Denver, Colorado*.
20. Donnerberg, J., Kim, J., Taylor, J., **Collins, W.**, and Miller, J. (2019). Insight into Practitioners’ Perceptions Regarding Co-Location and Its Impact on Project Value in Design-Build. *Annual Conference on Civil, Structural & Environmental Engineering Computing, Riva del Garda, Italy*.
21. Leathem, T., Redden, L., Kim, J., **Collins, W.**, and Preer, I. (2019). “Student perspectives on the use of iPads for navigating construction drawings: a case study. *American Society for Engineering Education Annual Conference, Tampa, Florida*.
22. McCall, C., Wetzel, E., Leathem, T., and **Collins, W.** (2019). “Pedegogy for 21st century construction education: active and collaborative learning in correlation with ACCE student learning outcomes. *Associated Schools of Construction Annual Conference, Denver, Colorado*.
23. **Collins, W.**, Redden, L., and Kim, J. (2018). “Leveraging mobile applications to promote ACCE student learning outcomes.” *Associated Schools of Construction Annual Conference, Minneapolis, Minnesota*.
24. **Collins, W.**, Bugg, R., and Layson, A. (2018). “Quantitative analysis of electrical-related change orders on university projects.” *Creative Construction Conference 2018, Ljubljana, Slovenia*.
25. Bugg, R., and **Collins, W.** (2018). “Safety training for students engaged in service learning.” *American Society for Engineering Education Annual Conference, Salt Lake City, Utah*.
26. **Collins, W.**, Parrish, K., and Gibson, Jr., G.E. (2017). “Defining and understanding “small projects” in the industrial construction sector.” *Creative Construction Conference, Primosten, Croatia*.
27. **Collins, W.**, and Redden, L. (2017). “Improving student estimating accuracy through hands-on learning: a case study.” *Associated Schools of Construction Annual Conference, Seattle, Washington*.
28. Redden, L., **Collins, W.**, and Kim, J. (2017). “Integration of construction mobile technologies into construction management curriculum: a case study.” *Creative Construction Conference, Primosten, Croatia*.
29. Bugg, R., **Collins, W.**, and Kramer, S. (2017). “Evolution of short-term international service-learning class in Quito, Ecuador.” *American Society of Engineering Education Annual Conference, Columbus, Ohio*.
30. Bugg, R., and **Collins, W.** (2017). “A case study in the use of building information technology in hospital construction.” *Proceedings of the 2017 Industrial and Systems Engineering Conference, Pittsburgh, Pennsylvania*.
31. Liu, J., Burt, R., Cobb, C., and **Collins, W.** (2017). “A preliminary study of effects of dimensional control on the accuracy of 3D models” photogrammetry modeling of a building façade.” *Construction in the 21st Century International Conference, Dubai, United Arab Emirates*.

32. Liu, J., Getz, A., Burt, R., and **Collins, W.** (2017). "An investigation using photogrammetry technology on 3D digital recreation of the historical progression of a historic building." *Construction in the 21st Century International Conference, Dubai, United Arab Emirates.*
33. **Collins, W.**, Parrish, K., and Gibson, Jr., G.E. (2016). "Comparison of front end planning practices for small and large industrial construction projects." *Construction Research Congress 2016, San Juan, Puerto Rico.*
34. **Collins, W.**, Parrish, K., and Gibson, Jr., G.E. (2015). "Development and utilization of the project definition rating index for small industrial projects." *ICSC15 – The Canadian Society for Civil Engineering's 5th Annual/11th Construction Specialty Conference, Vancouver, British Columbia.*
35. **Collins, W.**, Parrish, K., and Gibson, Jr., G.E. (2015). "Improving project performance within industrial focused organizations with the project definition rating index for small industrial projects." *Engineering Project Organization Conference 2015, Edinburgh, Scotland.*
36. **Collins, W.**, and Parrish, K. (2014). "The need for integrated project delivery in the public sector." *Construction Research Congress 2014, Atlanta, Georgia.*

Other Scholarly Work

1. Kim, J., and **Collins, W.** (2020). Construction Site Logistics Planning. *Case study for the Associated General Contractors of America (AGC).*

Courses Taught at Auburn University

Course Number	Course Name & Credit Hours	Undergrad or Grad	Typical Enrollment	Sections Taught
BSCI 3500	Construction Info. Technology I (3)	Undergrad	15	1
BSCI 3600	Construction Estimating (4)	Undergrad	30	19
BSCI 3660	Preconstruction and Project Management (4)	Undergrad	30	11
BSCI 3800	Contracting Business (4)	Undergrad	30	3
BSCI 4300	Principles of Construction and Design (3)	Undergrad	25	2
BSCI 4610	Scheduling and Field Operations (4)	Undergrad	30	3
BSCI 7020	Integrated Building Processes I (3)	Grad	15	9
BSCI 7026	Integrated Building Processes I (3)	Grad (Online)	20	9
BSCI 8950	Dissertation Seminar (1)	Grad	5	2

Courses Taught at Bowling Green State University

Course Number	Course Name & Credit Hours	Undergrad or Grad	Typical Enrollment	Sections Taught
CONS 2350	Introduction to Construction Lab (1)	Undergraduate	65	2

Graduate Student Research Supervised

Name	Degree	Year	Current position	My Role
Shadi Alathamneh	PhD	2026*	PhD Candidate	Chair
Contina McCall	PhD	2026*	Campus Architect (Auburn University)	Chair
Imran Jebarah	MBC	2026*	Graduate student	Chair
Jay Holley	MBC	2026*	Graduate student	Committee
Andrew Rentz	MBC	2026*	Graduate student	Committee
Zohaib Anjum	MBC	2026*	Graduate student	Committee
Farnaz Jafari	PhD	2025	Visiting Assistant Professor (Wentworth Institute of Technology)	Chair
Carter Henry	MBC	2024	Assistant Project Manager (Brasfield & Gorrie)	Chair
Cam Trammell	MBC	2024	Family Business	Committee
Shadi Alathamneh	MBC	2023	PhD Candidate	Committee
Wendy Peacock	MBC	2023	Director of Construction Management (Auburn University)	Committee
Stephan Jones	MBC	2022	Superintendent (Metcon Construction)	Committee
Peyton Morris	MBC	2020	Project Manager (Morris Quality Homes)	Chair
Alexander Bonaparte	MBC	2020	Senior Project Engineer (McCarthy)	Chair
Ishmael Preer	MBC	2020	Project Engineer (Andres Construction)	Committee
Britney Kirksey	MBC	2019	Project Engineer (Clark Construction)	Chair
Jess Donnerberg	MBC	2019	Senior Project Manager (Bouten Construction)	Committee
Reynolds Herlong	MBC	2018	Project Engineer (Hoar Construction)	Chair
Contina McCall	MBC	2018	Campus Architect (Auburn University)	Committee
Abhay Chavan	MBC	2018	PhD Student (University of Oklahoma)	Committee
Mark Walsh	MBC	2017	Project Engineer (DPR Construction)	Chair
Alex Layson	MBC	2017	Senior Project Manager (ExecuPOWER, LLC)	Chair
Houston White	MBC	2016	Project Manager (Bailey Harris Construction)	Chair

*Expected Graduation Date

Student Competition Teams Coached

Year	Competition	Location	Team	Finish
2025	ASC Region 2	Greenville, South Carolina	Graduate	2 nd Place
2025	ASC Region 2	Greenville, South Carolina	Preconstruction	3 rd Place
2025	ASC Region 8	Dublin, Ireland	International DB	2 nd Place
2024	ASC Region 2	Greenville, South Carolina	Graduate	2 nd Place
2024	ASC Region 8	Dublin, Ireland	International DB	Did not place
2024	ASC Region 6/7	Reno, Nevada	Integrated Project	Did not place
2023	ASC Region 8	Liverpool, England	International DB	2 nd Place
2023	ASC Region 6/7	Reno, Nevada	Integrated Project	Did not place
2022	ASC Region 2	Peachtree City, Georgia	Bid Simulation	2 nd Place
2022	ASC Region 2	Peachtree City, Georgia	Concrete	Did not place
2021	ASC Region 2	Peachtree City, Georgia	Risk	2 nd Place
2020	ASC Region 2	Virtual	Risk	1 st Place
2020	ASC Region 3	Virtual	Concrete	Did not place
2019	ASC Region 2	Peachtree City, Georgia	Concrete	2 nd Place
2019	ASC Region 5	Dallas, Texas	International	3 rd Place
2018	ASC Region 8	Prague, Czech Republic	International	Did not place
2018	ASC Region 2	Peachtree City, Georgia	Concrete	Did not place
2018	ASC Region 5	Dallas, Texas	International	Did not place
2017	ASC Region 8	Liverpool, England	International	Did not place
2017	ASC Region 5	Dallas, Texas	International	1 st Place
2016	ASC Region 8	Reading, England	International	1 st Place
2015	ASC Region 8	Dublin, Ireland	International	2 nd Place

Service to Construction Academia

Year	Role	Association/Group
2024 to Present	Appointed Officer - Board of Directors	Associated Schools of Construction
2023 to Present	Chair	Associated Schools of Construction Estimating Faculty Bootcamp
2023 to Present	Visiting team member	American Council for Construction Education (ACCE)
2016-2019	Paper reviewer, conference session moderator	Associated Schools of Construction Annual International Conference
2020	Construction Estimating, Scheduling, Economics, and Controls track co-chair	Construction Research Congress Bi-Annual Conference
2016, 2018	Paper reviewer	Construction Research Congress Bi-Annual Conference
2016, 2019, 2023	Paper reviewer, session moderator	Construction in the 21 st Century Annual Conference

Service to Auburn University

Committee	Years of service	Department, College, or University	Role
Comprehensive analysis of faculty compensation, workload, and productivity steering workgroup	2024 to present	University	Member
Faculty Salaries and Welfare	2023 to Present	University	Member
Research faculty search committee	2022	Department	Chair
Tenure-track faculty search committee	2021-2022	Department	Member
Tenure-track faculty search committee	2020-2021	Department	Member
Field lab committee	2019 to present	Department	Member
Promotion and tenure document review committee	2018	Department	Member
Thesis committee	2017 to 2021	Department	Chair
Undergraduate research committee	2017 to present	Department	Member
CADC research council	2016 to 2024	College	Member
Center for Construction Innovation and Collaboration Strategy review committee	2019	College	Member
Master planning committee	2016 to 2020	University	Member