

Extended Bio and CV of Dr. Venkatesh Kodur on Wikipedia and Wixsite

https://en.wikipedia.org/wiki/Venkatesh_K._R._Kodur



<https://vkodur.wixsite.com/kodur>

Venkatesh Kumar R Kodur, born in Kodur village in Karnataka India, received his bachelor's degree in Civil engineering from the University Visveswaraya College of Engineering, Bangalore, India, in 1984. He received his M.Sc. and Ph.D. degrees from Queen's University, Canada, in 1988 and 1992, respectively. Following a brief stint as a Post-doctoral Fellow at Royal Military College, Kingston, Canada, he joined the National Research Council (Canada), where as senior scientist, he carried out extensive research in structural fire safety field. In 2005, he joined the faculty of Michigan State University (MSU), where he is currently a University Distinguished Professor in the Department of Civil & Environmental Engineering. He was previously the *Chairperson (Head)* and *Associate Chairperson* of the Department of Civil and Environment Engineering at MSU. Kodur has established unique fire test facilities and highly acclaimed research program in *structural fire engineering* area at MSU and is the founding director of the *Center on Structural Fire Safety and Diagnostics*.

Prof. Kodur is an internationally recognized scholar for his contributions in structural and fire engineering fields. His research has focused on the experimental behavior and analytical modeling of structural systems under extreme fire conditions, Constitutive modelling of material properties at elevated temperatures, Fire resistance design of structural systems, Damage assessment & retrofitting of structures, Failure investigations, and Application of AI & ML based techniques for structural fire engineering. His contributions to the fields of structural fire safety and high performing construction materials are seminal and numerous, and his research accomplishments have had major impacts. He has developed fundamental understanding on the behavior of materials and structural systems under extreme fire conditions. The techniques and methodologies resulting from his research is instrumental for minimizing the destructive impact of fire in the built infrastructure, which continues to cause thousands of deaths and billions of dollars of damage each year in the U.S. and around the world. Many of these design approaches and fire resistance solutions have been incorporated in to various construction codes and design standards in the U.S. and around the world. He has an outstanding record for international research initiatives and collaborations and has collaborated with top researchers and prestigious organizations from about two dozen countries to produce high quality deliverables.

Dr. Kodur has advised around 29 postdoctoral researchers, 29 Ph.D. students, 30 M.S. students and number of undergraduate research interns over the last 25 years and most of these student's dissertations are on "structural", "material" and "fire" engineering topics. Many of his (former) Ph.D. students and postdoctoral scholars are currently faculty members in reputed universities throughout the world. Dr. Kodur, together with his students and collaborators, has published results from his research in 560+ peer-reviewed papers in journals and conferences, and he has given more than 100 plenary and key-note presentations at major international conferences. He is one of the highly cited authors in Civil Engineering and Fire Protection Engineering disciplines, and as per *Google Scholar*, he has more than 25,700 citations with an "*h*" index of 89. The most recent notable contribution from Kodur is a new text book on "*Structural Fire Engineering*" published by *McGraw-Hill Education*.

Dr. Kodur has served in various leadership positions, including as *Chairperson (Head)* and *Associate Chairperson* of the Department of Civil and Environment Engineering at MSU, and as *Chair* of various technical committees of leading professional societies and on editorial boards of prestigious international journals. He has been invited to serve on *external review/advisory committees* of the departments at the University of Maryland and IIT-Hyderabad (India). Most recently he has been elected to be the Chairperson of the steering committee of the international organization- "*Structure in Fire*",

Dr. Kodur's contributions to the Civil Engineering and Fire Protection Engineering professions have been recognized by peers through prestigious honors and awards. He has been elected as Fellow of seven Institutes/Academies: *Academy of Sciences of the Royal Society of Canada, Canadian Academy of Engineering, American Society of Civil Engineers, Indian National Academy of Engineering, Structural Engineering Institute, American Concrete Institute, and the Society of Fire Protection Engineers*. He is a professional engineer, Associate Editor-in-Chief of *Journal of Advances in Bridge Engineering*, Associate Editor of *Journal of Structural Engineering* and *Journal of Structural Fire Engineering*, editorial board member of five leading journals, Chairman of ASCE(SEI)-SFPE 29 (Fire) Standards Committee, and a member of UK-EPSRC College of Reviewers.

Dr. Kodur has won many distinguished awards including Michigan State University "*University Distinguished Professor*" rank, American Institute of Steel Construction *Faculty Fellowship Award*, MSU *Distinguished Faculty Award*, NRCC (Government of Canada) *Outstanding Achievement Award*, NATO *Award for collaborative research* and *Fulbright Scholar award*. He currently holds prestigious academic appointments including, "*INFOSYS Distinguished Visiting Chair Professor*" at the Indian Institute of Science; *Distinguished Visiting Professor* at the Indian Institute of Technology-Bombay; Government of India "*VAJRA Faculty for Collaborative Research*" at the Indian Institute of Technology-Delhi; "*Distinguished Invited Visiting Professor*" at Ewha Woman's University, South Korea; and "*Adjunct Professor*" at the University of Waterloo, Canada. Also, in recognition of his contributions to civil engineering and structural fire engineering, he has been felicitated through organizing major international conferences. Most notably, Dr. Kodur was part of the Federal Emergency Management Agency and American Society of Civil Engineers/Society of Fire Protection Engineers high profile "*Experts Team*" that investigated the collapse of the World Trade Center buildings as a result of September 11 attacks.