

# **Supriyo Bandyopadhyay, Ph.D.**

**Commonwealth Professor, Department of Electrical and Computer Engineering at VCU College of Engineering**

Engineering West Hall, Room 238, Richmond, VA, US

Professor Bandyopadhyay has authored and co-authored nearly 400 research publications

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## **Description**

Supriyo Bandyopadhyay is Commonwealth Professor of Electrical and Computer Engineering at Virginia Commonwealth University. He received a B. Tech degree in Electronics and Electrical Communications Engineering from the Indian Institute of Technology, Kharagpur, India; an M.S degree in Electrical Engineering from Southern Illinois University, Carbondale, Illinois; and a Ph.D. degree in Electrical Engineering from Purdue University, West Lafayette, Indiana. He spent one year as a Visiting Assistant Professor at Purdue University, West Lafayette, Indiana (1986-87) and then nine years on the faculty of University of Notre Dame. In 1996, he joined University of Nebraska-Lincoln as Professor of Electrical Engineering, and then in 2001, moved to Virginia Commonwealth University as a Professor of Electrical and Computer Engineering, with a courtesy appointment as Professor of Physics. He directs the Quantum Device Laboratory in the Department of Electrical and Computer Engineering. Research in the laboratory has been frequently featured in national and international media. Its educational activities were highlighted in a pilot study conducted by the ASME to assess nanotechnology pipeline challenges. The laboratory has graduated many outstanding researchers who have won numerous national and international awards.

Prof. Bandyopadhyay has authored and co-authored nearly 400 research publications and presented nearly 150 invited or keynote talks at conferences and colloquia/seminars across four continents. He is the author of three popular textbooks, including the only English language textbook on spintronics. He is currently a member of the editorial boards of eleven international journals and served in the editorial boards of four other journals in the past. He has served in various committees of over 70 international conferences and workshops. He is the founding Chair of the Institute of Electrical and Electronics Engineers (IEEE) Technical Committee on Spintronics (Nanotechnology Council), and past-chair of the Technical Committee on Compound Semiconductor Devices and Circuits (Electron Device Society). He was an IEEE Electron Device Society Distinguished Lecturer (2005-2012) and is currently an IEEE Nanotechnology Council Distinguished Lecturer. He is also a past Vice President of the IEEE Nanotechnology Council. Prof. Bandyopadhyay is the winner of many awards and distinctions.

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## **Industry Expertise**

Education/Learning, Research

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## **Topics**

Self-assembly of Regimented Nanostructure Arrays, Spintronics, Quantum Devices, Hot Carrier Transport in Nanostructures, Nanoelectronics, Quantum Computing, Nanomagnetism, Computing Paradigms, Optical Properties of Nanostructures, Coherent spin transport in Nanowires for Sensing and Information Processing, Nanowire-based Room Temperature Infrared Detectors

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## **Affiliations**

Institute of Electrical and Electronics Engineers : Vice President Nanotechnology Council Associate Editor  
IEEE Transactions on Electron Devices Technical Committee Chairs, Optical Society of America : Member of  
Technical Group on Photonic Detection, American Physical Society, The Electrochemical Society, American  
Association for the Advancement of Science, Institute of Physics (UK): Editorial Board Member of the Journal  
of Nanotechnology

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## **Education**

### **Purdue University**

Ph.D. Electrical Engineering

### **Southern Illinois University**

M.S. Electrical Engineering

### **Indian Institute of Technology, Kharagpur**

B.Tech Electronics and Electrical Communications Engineering

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## **Accomplishments**

### **University Award of Excellence**

Virginia Commonwealth University faculty award for performing in a superior manner in teaching, scholarly activity and service. One award is given in any year. It is one of the highest awards the University can bestow on a faculty member.

### **Virginia's Outstanding Scientist**

Named by the Governor of the State of Virginia, 2016. One of two recipients in the State of Virginia. This award is given across all fields of engineering, science, mathematics and medicine.

### **Electrical and Computer Engineering Lifetime Achievement Award, VCU**

School of Engineering, Virginia Commonwealth University, 2015. One of two such awards given in the department's history.

### **Distinguished Scholarship Award, Virginia Commonwealth University**

Virginia Commonwealth University, 2012. One award is given in any year and covers all fields of science, humanities, business, education, social science, engineering and medicine.

### **Interdisciplinary Research Award, University of Nebraska-Lincoln**

Given jointly by the College of Engineering, the College of Science, and the Institute for Agricultural and Natural Resources at University of Nebraska-Lincoln

### **IBM Faculty Award**

International Business Machines, 1990

**College of Engineering Service Award, University of Nebraska-Lincoln**

College of Engineering, University of Nebraska-Lincoln, 1999

**College of Engineering Research Award, University of Nebraska-Lincoln**

College of Engineering, University of Nebraska Lincoln, 1998

**Distinguished Alumnus Award, Indian Institute of Technology, Kharagpur, India**

One of seven industry, government and academic leaders worldwide honored with this award in 2016. All are alumni of Indian Institute of Technology, Kharagpur.

**Fellow of the Institute of Electrical and Electronics Engineers (IEEE)**

Citation: For contributions to device applications of nanostructures

**Fellow, American Physical Society**

Citation: For pioneering contributions to device applications of nanostructures.

**Fellow of the Electrochemical Society**

In recognition of the contributions to the advancement of science and technology, for leadership in electrochemical and solid state science and technology and for active participation in the affairs of the Electrochemical Society

**Fellow of the Institute of Physics**

For outstanding contributions to physics of nanostructured devices.

**Fellow of the American Association for the Advancement of Science**

For pioneering contributions to spintronics and device applications of self assembled nanostructures

**State Council of Higher Education for Virginia (SCHEV) Outstanding Faculty Award**

The Outstanding Faculty Awards are the Commonwealth's highest honor for faculty at Virginia's public and private colleges and universities. These awards recognize superior accomplishments in teaching, research, and public service.

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