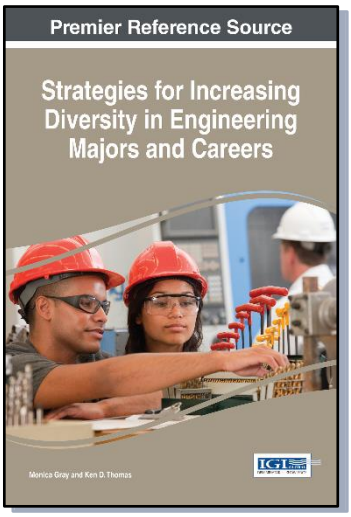
Strategies for Increasing Diversity in Engineering Majors and Careers

Part of the Advances in Higher Education and Professional Development Book Series

Monica Gray (Lincoln University, USA) and Ken D. Thomas (Auburn University, USA)



Description:

Underrepresentation of minorities is present in the field of engineering, both in education and practice. As in every profession, diversity and inclusion needs to be incorporated in order to provide the same opportunities for all people.

Strategies for Increasing Diversity in Engineering Majors and Careers is an essential reference work for the latest research on the need for diversity and inclusion within the engineering workforce and provides approaches to restructure engineering education to achieve this goal. Features expansive coverage on a broad range of topics including minority recruitment, experiential education systems, and study abroad programs.

Readers:

This book is ideally designed for students, professionals, academic advisors, and recruitment officers seeking current research on ways to diversify engineering education and careers.

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Topics Covered:

- Cultural and Gender Bias
- Experiential Education System
- Gifted Students
- K-12 Education
- Minority Recruitment
- Study Abroad Programs
- Support System Development

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Monica Gray, Ph.D., M.P.H., C.P.H., is an Assistant Professor of Civil and Environmental Engineering at The Lincoln University. She simultaneously received her Ph.D. in Civil and Environmental Engineering (Water Resources concentration) and Masters of Public Health (Environmental & Occupational Health concentration) from the University of South Florida, Tampa. She also received a Masters in Biological Engineering from the University of Georgia, Athens and B.S. in Agricultural Engineering from the University of the West Indies, Trinidad. Prior to arriving at The Lincoln University, Dr. Gray managed the global curriculum portfolio for over a hundred and twenty programs in sixteen countries at Arcadia University and work as an Environmental Engineer and Environmental Health Program Director at the Philadelphia Housing Authority and Organica Biotechnology. Her research interest is in the area of systems approaches for sustainable environmental management and community health with particular focus on water resources and sanitation systems. This includes water and wastewater treatment, reuse and management. Her current research project is the identification and modelling of Pharmaceutical and Personal Care Products (PPCPs) in community water.