

Thomas D. Roper, Ph.D.

Director, Pharmaceutical Engineering and Professor, Department of Chemical and Life Science Engineering at VCU College of Engineering

Biotech Eight, 4th floor, Room 420, Richmond, VA, US

Dr. Roper specializes in efforts to bring engineering and science closer to patients who utilize medicines via novel technologies.

Description

Dr. Thomas Roper is a professor of Chemical Engineering and Director of the Pharmaceutical Engineering program for the School of Engineering. He is the principal investigator for the Pharmaceuticals on Demand project at VCU, and collaborator on the Medicines for All initiative. His research interests are in the miniaturization of manufacturing footprints, including continuous chemistry and formulation technologies. Bringing science, technology, medicine and education close to the point of use is a major theme for his research efforts. Roper was previously with GSK Pharmaceuticals for 22 years where his past positions included "Head of API Chemistry and Analysis US" and "Global Head of Exploratory Development Sciences".

Industry Expertise

Education/Learning, Writing and Editing, Health and Wellness, Pharmaceuticals, Biotechnology, Chemicals

Topics

Metabolic Engineering and Biocatalysis, 3D Printing of Dose Forms, Long Acting Therapy Development, Nanomaterials and Particle Sciences, Continuous Chemical Reaction Engineering, Cost Effective Therapeutic Treatments for the Developing World, Drug Development, Drug Discovery, Pharmaceutical Innovation

Affiliations

Education

Harvard University

Postdoctoral Associate Organic Chemistry

University of Virginia

Ph.D. Organic Chemistry

Virginia Commonwealth University

B.Sc. Chemistry

Accomplishments

NIH Postdoctoral Fellow
2013

Harvard University

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