



JOHN A. WILLIAMS, Ph.D., M.B.A., PE

Dr. Williams performs forensic investigations, technology assessments, and financial valuation services for fires, explosions, industrial accidents, and equipment failures in oil & gas production and refining, chemicals, power generation (gas, oil, coal), steel making, and renewable energy facilities. A licensed Professional Engineer, Dr. Williams has led EPS, a full-service engineering firm, for over 23 years delivering engineering, procurement, and construction management services (EPCM). Dr. Williams operations experience began in 1977 as a USW union equipment operator and his engineering experience has ranged from manufacturing operations, detailed design, failure analysis, cost estimating and finance, and construction.



Dr. Williams has instructed project management, cost estimating, financial evaluation methods for the American Institute of Chemical Engineers and American Society of Mechanical Engineers since 1996. He has authored and presented across technical topics and has received awards for his distinguished engineering work.

PROFESSIONAL EXPERIENCE:

EPS, LLC (Environmental and Production Solutions, LLC) Founder and General Manager Engineering, Procurement, Construction Management (EPCM) Power Generation (boilers), Oil & Gas Refining, and facilities.	South Bend, IN 1995-present
ATA Consulting President EPCM, Renewable Energy Technologies & Valuation Services	South Bend, IN 1994-1995
Bayer Corporation Senior Scientist, H&R Manufacturing Analytics, Optimization, and Design for Biochemical Manufacturing, Retrofits, Expansions, and Logistics	Elkhart, IN 1991-1994
Monsanto Corporation Engineering Technology Specialist Manufacturing R&D, Design, Optimization, Retrofits and Expansions of Specialty Chemical and Petrochemical Plants	Akron, OH 1988-1991
Babcock and Wilcox Company Research Engineer II Combustion, Explosions; Steam Boilers and Electrical Power; Oil, Gas, Coal, Biomass, Sewage, Refuse, and Waste-to-Energy	Alliance, OH 1986-1988
Center for Catalytic Science and Technology Engineering Technician, University of Delaware Oil Refining and Gas Processing; Gasification and Liquefaction	Newark, DE 1979-1981



EXPERIENCE (Continued):

Department of Chemistry Organic Chemist, University of Delaware Chemical Synthesis and Laboratory Analytical Methods	Newark, DE 1978-1979
The Budd Company United Steelworkers Operator (USW Union) Heavy Equipment, Cranes, and Machinery Operator	Downingtown, PA 1977
Wetherill Tree Plantation Laborer, Heavy Equipment Operator	Chester Springs, PA 1972-77

AICHE AND ASME LECTURER:

Developer, Author, and Instructor for the American Institute of Chemical Engineers (AIChE) and the American Society of Mechanical Engineers (ASME).

- **Conceptual Development and Cost Estimating of Engineering Projects**
2000 – Present: Cost Estimating, Project Management, and Construction
- **Practical Project Evaluation: Capital and Operating Cost Estimation**
1996 – Present: Costs, Operations Analysis, Valuation Analytics

HONORS:

Distinguished Alumni Award, Department of Chemical Engineering, University of Utah, 2015
College of Engineering Outstanding Service Award, University of Utah, 2018

EDUCATION:

Ph.D., Department of Chemical and Fuels Engineering, awarded 1990
University of Utah; Salt Lake City, Utah
Dissertation: Ignition of Solid Fuels in Fluidizing Bed Combustion
Combustion and Fuels; Oil and Gas Refining; Coal, Biomass, Tar Sands, and Shale Oil Processing;
Gasification and Liquefaction; Alternate Energy; Petrochemicals

M.S., Department of Chemical and Fuels Engineering, awarded 1984
University of Utah; Salt Lake City, Utah
Thesis: Hydrolysis of Aromatic Ethers
Oil and Gas Refining; Coal, Tar Sands, Shale Oil Processing;
Gasification and Liquefaction; Petrochemicals

B.S., Department of Chemistry, awarded 1981
University of Delaware; Newark, Delaware

M.B.A. in Finance, Graduate School of Business, awarded 1994
University of Chicago; Chicago, Illinois



BOARD MEMBERSHIP SERVICE:

Industrial Advisory Board, Department of Chemical Engineering, University of Utah 2015-present
Engineering National Advisory Council, College of Engineering, University of Utah 2016-present

PROFESSIONAL ENGINEERING LICENSURE:

States of Texas, Indiana, Illinois, Michigan, Ohio, Kentucky, Florida, and Virginia

PROFESSIONAL AFFILIATIONS:

American Institute of Chemical Engineers (AIChE), Senior Member, Instructor
American Society of Mechanical Engineers (ASME)
American Society of Appraisers
American Chemical Society (ACS)
AACE International (formerly the Association for Advancement of Cost Engineering)
ASHRAE (American Society of Heating, Refrigerating & Air-Conditioning Engineers)

PUBLICATIONS AND PROFESSIONAL PRESENTATIONS:

How Do Regulations Affect the Energy Industry: 2017, Presented at the Department of Chemical Engineering of the University of Utah, November 2017.

How Do Regulations Affect the Energy Industry, Presented at the University of Utah College of Engineering, September 2016.

Contingency in Capital Cost Estimation, Chemical Engineering Progress, June 2007.

Keys to Bioreactor Selection, Chemical Engineering Progress, March 2002.

Revamping and Retrofitting Pneumatic Conveying Systems: Practical Approaches, Presented at the Powder & Bulk Solids Conference, Rosemont, IL May 2000.

Optimize Distillation System Revamps, Chemical Engineering Progress, March 1998.

Revamping Distillation Column Operation: Practical Approaches, Presented at the AIChE National Meeting, Houston, TX March 1997.

Process Development Utilizing Environmental Premises. AIChE National Meeting, Los Angeles, CA March 1991.