

**DANA J. MEDLIN, Ph.D., P.E., FASM**

**Eurofins | EAG Laboratories**

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**Education:**

- Ph.D., Materials Science Engineering, University of Nebraska
- M.S., Mechanical Engineering (Metallurgy Option), University of Nebraska
- B.S., Mechanical Engineering (Metallurgy Option), University of Nebraska



Licensed Professional Engineer (P.E.) - Ohio (E-63399) - Nebraska (E-15403)- Texas (137618)

**Areas of Expertise:**

Dr. Medlin has over 30 years of experience leading multidisciplinary failure analysis and design projects in metallurgical and materials science engineering, corrosion engineering, materials joining and welding, and biomedical engineering for a variety of companies and firms. He has testified internationally as an expert witness in cases involving medical device, automotive, aerospace, heavy equipment, fire investigations, firearms, ammunitions, and marine applications. Specific areas of experience include: Failure Analysis & Remedial Action, Applied Research & Development, Medical Device Design and Validation, Bearing and Gear Investigations, Welding Metallurgy, Corrosion Evaluations and Testing, Mechanical Testing, Heat Treatment Issues, Metallurgical Related Fire Investigations, and Lectures on many Metallurgical and Biomaterials Engineering Topics. Dr. Medlin is a Fellow of ASM-International, a distinguished honor in the field of metallurgical and materials science engineering. He is also a Technical Advisor Member of the Association of Firearm and Tool Mark Examiners (AFTE) and was the Kielhorn Professor of Materials Joining & Welding Engineering at LeTourneau University. He is currently the VP – Metallurgical Engineering at EAG Laboratories.

**Professional Experience:**

**2021 to present - Vice President**

Metallurgical Engineering Eurofins | EAG Laboratories, Inc., El Segundo, California

**2019 – 2021 - Expert Consultant**

EAG Laboratories - Eurofins Materials Science, El Segundo, CA and Longview, TX

- Conducts forensic engineering investigations, failure analysis, engineering design, expert testimony and maintenance metallurgical engineering problem solving. Dr. Medlin has been a technical expert in national and international litigation involving failure analysis, materials and metallurgical engineering, biomedical engineering, corrosion engineering, design and safety issues, and manufacturing problems. He has also been involved with research and development projects for numerous corporations.

**2019 – 2021 - Kielhorn Professor**

Department of Materials Joining & Welding Engineering - LeTourneau University, Longview, TX

- Responsible for teaching undergraduate and graduate courses in materials & metallurgical engineering, materials joining & welding engineering, as well as developing a research program in welding related metallurgy, undergraduate and graduate student advisor, student recruitment, regional consultant for industry, etc.

**2015 – 2019 - Senior Managing Consultant**

EAG Laboratories, El Segundo, CA and Omaha, NE

- Conducts forensic engineering investigations, failure analysis, engineering design, expert testimony and maintenance metallurgical engineering problem solving. Dr. Medlin has been a technical expert in national and international litigation involving failure analysis, materials and metallurgical engineering, biomedical engineering, corrosion engineering, design and safety issues, and manufacturing problems. He has also been involved with research and development projects for numerous corporations.

**2011 – 2015 - Senior Managing Consultant**

Engineering Systems Inc. (A consulting engineering & investigation company), Omaha, NE

- Conducted forensic engineering investigations, failure analysis, engineering design, expert testimony and maintenance metallurgical engineering problem solving for a variety of companies and firms.

**2011 to 2015 - Adjunct Professor**

Metallurgical and Materials Engineering Department, South Dakota School of Mines & Technology, Rapid City, South Dakota

**2011 to 2015 - Senior Managing Consultant**

Engineering Systems, Inc., Omaha, Nebraska

**2005 to 2011 - NUCOR Professor**

Metallurgical and Materials Engineering Department, South Dakota School of Mines & Technology, Rapid City, South Dakota

**2000 to 2005 - Global Metallurgy & Materials Leader**

Zimmer, Inc., Warsaw, Indiana

**1998 to 2000 - Specialist and Principal Engineer**

The Timken Company, Canton, Ohio

**1997 to 1998 - Materials Specialist and Supervisor of Analytical Services**

LTV Steel, Independence, Ohio

**1993 to 1997 - Research Assistant Professor**

Metallurgical and Materials Engineering Department Colorado School of Mines & Technology, Golden, Colorado

**Honors and Awards:**

- Fellow of ASM-International (International Technical Organization)
- Fellow of Alpha Sigma Mu (International Professional Honor Society)
- Technical Advisor Member of the Association of Firearm and Tool Mark Examiners (AFTE)

**Publications and Presentations:**

- Dr. Medlin has authored more than a hundred technical publications, presentations, patents and edited books.