Casey M. Smith

Senior Technologist Director

Mr. Smith has over ten years of experience with failure analysis investigations, laboratory evaluations and testing, metallography, quality control processes, and scene documentation. He specializes in metallurgical analysis methods including metallography, microscopy, and scanning electron microscopy (SEM).

Since joining ESi, Mr. Smith has specialized in the management and operation of ESi-Dallas' laboratory with a focus on materials investigations and third-party laboratory inspection services. Mr. Smith also has broad experience performing scene documentation on materials, aviation, automotive, electrical, fire, and explosion cases.

Education

BS, Materials Science and Engineering, University of North Texas, 2011

Positions Held

Engineering Systems Inc., Dallas, Texas

- Senior Technologist Director, 2025 – Present
- Regional Operations Manager, 2021 – Present
- Technologist Director, 2024 - 2025
- Senior Technologist, 2016 – 2024

North American Stainless

- Quality Control Engineer, 2014 - 2016

University of North Texas

- Research Associate, 2011 - 2013

Certifications

- **IXRF Systems Certification**
- **FAA Remote Pilot Certification**
- **FARO Laser Scanning Certification**

Contact Information

cmsmith@engsys.com

(214) 343-3811

ESi Dallas

10338 Miller Road
Dallas, TX 75238

Areas of Specialization

- Materials Testing and Characterization
- Failure Analysis and Engineering
- Mechanics and Materials
- Laboratory Practices
- Industrial Services
- Inspection and Investigative Services
- Instrumentation and Data Acquisition

Publications

“Comparison of Crystallization Behavior of Fe-Si-B-Cu and Fe-Si-B-Cu-Nb-Based Amorphous Soft Magnetic Alloys,” **Casey Smith**, Shravana Katakam, Soumya Nag, Y.R. Zhang, J.Y. Law, Raju Ramanujan, Narendra Dahotre, Rajarshi Banerjee, Metallurgical and Materials Transactions A, 2014.

“Improved Soft Magnetic Properties by Laser De-Vitrification of Fe-Si-B Amorphous Magnetic Alloys,” **Casey Smith**, Shravana Katakam, Soumya Nag, Xi Chen, Raju Ramanujan, Narendra Dahotre, Rajarshi Banerjee, Materials Letters, 2014

Presentations

“The Little Plane That Could: Failure Analysis of a Robust Turbine Engine,” Dale Alexander, Mark Lewis, Richard Baron, **Casey Smith**, Pierce Umberger, Ellen Wright, MS&T 2019 Abstract