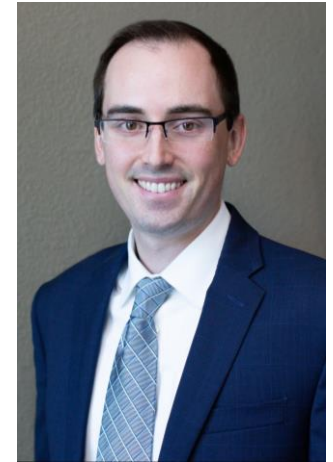


**MATTHEW S. DARE, MS, ASEP**  
**Scientist**  
[mdare@AEIengineers.com](mailto:mdare@AEIengineers.com)

Mr. Dare has a diverse background as a materials scientist, microscopy subject matter expert, materials characterization specialist, surface chemistry analyst, and Scanning Electron Microscopy (SEM) owner/operator. He uses these skills to perform root cause analysis of defects in various materials, including glass, ceramics, metals, polymers, and thin films. Mr. Dare has further utilized his background and skillsets to conduct reliability, corrosion, humidity, and Highly Accelerated Life Testing (HALT) studies to identify common failure and material degradation modes. Mr. Dare has over five years of experience as a research scientist working with instrumentation critical in materials science characterization, including SEM, Transmission Electron Microscopy (TEM), Energy-Dispersive X-Ray Spectroscopy (EDS), and Electron Backscatter Diffraction (EBSD).



**EDUCATION**

Professional Certificate in Data Science, HarvardX, Harvard University, 2021  
Master of Science, Geological Science, University of Rochester, 2016  
Bachelor of Science, Geological Science, University of Rochester, 2013

**CERTIFICATION & LICENSURE**

Associate Systems Engineering Professional (ASEP)

**WORK HISTORY**

Scientist, *AEI Corporation*, August 2022-Present  
Manufacturing Measurement Engineer, *Corning Inc.*, 2021-2022  
Scientist, *Corning Inc.*, 2018-2021  
TEM Microscopist, *EMSL Analytical Inc.*, 2016-2018

**EXPERIENCE**

Mr. Dare spent his early career conducting paleomagnetic investigations into natural magnetic carriers from both a chemical and physical characterization perspective. He then began working in the environmental field as a special projects and asbestos mineralogy analyst, providing insight into remediation sites on the local, state, and federal levels. When he transitioned to Corning Inc., he worked with a wide range of research, development, engineering, and manufacturing groups to broaden fundamental understanding of materials, explore novel material properties, and drive failure analysis and root cause investigations.

**AFFILIATIONS**

American Society for Testing and Materials (ASTM International)  
American Society of Metals (ASM International)  
International Council on Systems Engineering (INCOSE)  
Microanalysis Society (MAS)  
Microscopy Society of America (MSA)