



DELIVERING BIGGER, BETTER, BOLDER TECHNOLOGY SOLUTIONS IN 2023

■ Our **automation capabilities expanded** in 2023 with the doubling of our R&D and training lab space in Buffalo and the construction of our **Process Automation Lab** in Columbus.

■ With our **strategic partner CWB**, we continued to develop new training options with flexible formats including a **hybrid Robotic Integration course** combining online study with onsite practicums.

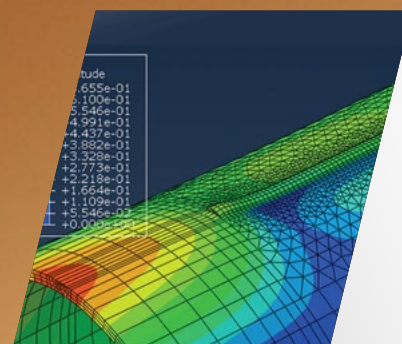


■ EWI associates shared a record amount of applied R&D by presenting **85 papers** at professional events, hosting 5 consortia meetings, and leading 5 topical webinars.

■ More than 170 people took our courses in **welding engineering, automation and robotics, weld inspection, metallurgy, and nondestructive testing.**



■ We designed a cross-disciplinary set of studies applying **integrated computational materials engineering (ICME)** to predict the performance of advanced material structures. Five reports were published this year.



■ EWI spinout **Fabrisonic** helped an electric vehicle battery manufacturer implement an ultrasonic additive manufacturing solution that **reduced costs by 45% and increased production speed by 200%.**



■ More than **\$6 million in capital assets** were added including a Wayland electron-beam powder bed fusion machine (first in USA), a Bond Refill Friction Stir Spot welder, and a VRC cold spray system.

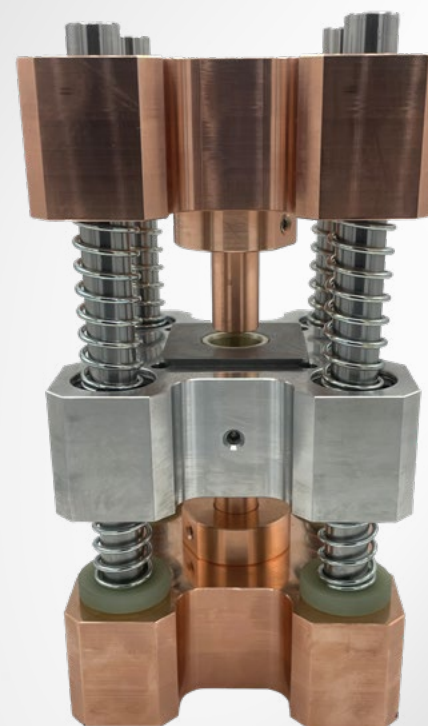
■ EWI was awarded a \$17 million contract from the **Air Force Research Laboratory** to develop a convergent manufacturing platform for advanced **Maintenance, Repair, and Overhaul (MRO)** sustainment.



■ With a new lab built to handle high-pressure, dense-phase CO₂ settings, EWI's augmented **environmental testing capabilities** support the **emerging carbon capture, utilization, and storage market.**



■ We strengthened our commitment to helping manufacturers reach **ESG sustainability targets** through innovative technology. One example is **Resistance-based Sintering**, an AM method that enables new material combinations, reduces equipment purchases, and lowers energy consumption.



BIGGER IMPACT



BETTER TOOLS

BOLDER ACHIEVEMENTS

LOOKING FORWARD TO SERVING YOU IN 2024!

EWI
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