

## JOHN ARIMOND

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Advanced Structures and Composites Center  
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### Professional Experience

- 2013-present **Business Development Manager, UMaine Composites Center** ([www.composites.umaine.edu](http://www.composites.umaine.edu))  
Building wind blade testing capabilities and leading an accredited IEC 61400-23 blade testing program. Led the successful handling and static testing of blades up to 56m in 2014. Led the design, installation and startup of ground-reaction fatigue testing equipment in 2015. Hired a graduate student to develop advances in wind blade fatigue testing. Applying advanced NDT techniques to wind blade inspection, including ultrasound, acoustic emission and digital image correlation. Developing blade inspection and repair knowhow, and planning continued development of inspection and structural refurbishment methods. Managing a variety of other design and testing activities in the 100,000 ft<sup>2</sup> UMaine Composites Center, including fatigue and static testing to failure of wind blade components and substructures.
- 2007-2013 **Chief Technology Officer, Windflow Technology Ltd** ([www.windflow.co.nz](http://www.windflow.co.nz))  
Hired and directed the work of Windflow's mechanical design, electrical and control systems engineering and R&D teams. Led a cadre of engineers who provided 24/7/365 remote operation of Windflow turbines from 2007-2013. Completed type certification of a 33/500 turbine to IEC WT-01 and 61400-1 in 2010. The 33/500 was deemed "commercially proven" through fleet track record in 2011. Led a yearlong negotiation through which Windflow's technology was licensed to General Dynamics in 2012. Led the design of a 45/500 turbine for General Dynamics. There have been no structural blade failures in the Windflow fleet to date.
- 1995-2006 **Equipment Services Manager, Rogers Corporation** ([www.rogerscorp.com](http://www.rogerscorp.com))  
Oversaw the specification, design, installation and startup of proprietary equipment and controls for precision web handling, coating, laminating, web treating, drying and annealing processes throughout Rogers' factories in the US, China and Europe. Hired and directed the work of mechanical, electrical and control systems engineers. Implemented and supported modern supervisory control and data acquisition (SCADA) systems. Developed company standards for PLC systems, HMI and SCADA systems, ovens and drying systems, machine alignment and tension control systems.
- 1985-1995 **Senior Design Research Engineer, Rogers Corporation** ([www.rogerscorp.com](http://www.rogerscorp.com))  
Led material and component testing programs in fatigue, creep, friction & wear, chemical resistance, effects of oxidation and UV exposures on mechanical properties, and effects of heat and humidity on electrical properties of Rogers' engineered materials. Performed FEA and developed proprietary CAE softwares to support applications engineers. Published data sheets, design guides, conference papers and journal articles.

### Education

Massachusetts Institute of Technology, S.M., Mechanical Engineering	1984
Harvard, A.B., Applied Mechanics, Magna Cum Laude, Phi Beta Kappa	1982
Presidential Scholar, National Merit Scholar, Hopkins (MN) high school valedictorian	1978