
Doug Freitag

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Professional Profile

A 30-year industry veteran with an established track record helping Clients identify, create, and capture opportunities for funding by the Federal Government in technology research, development, and acquisition. Mr. Freitag created BMT more than 20 years ago after a decade long career at Lockheed Martin managing advanced materials technology development program. He regularly markets new programs and technologies in the fields of advanced materials, life science, electronics, photonics, energy, sensors and manufacturing. Mr. Freitag's distinguished career has included senior positions and several awards with Lockheed Martin for his contributions to military systems. He has published and presented 60+ papers in advanced materials, issued several patents, organized and chaired numerous technical sessions at national meetings, and participated in government panels in support of the advanced materials industry. Mr. Freitag currently holds a DOD Secret clearance.

Areas of Expertise

- Federal Business Development
- Acquisition due Diligence
- Interdisciplinary Teams
- Strategic Planning
- Program & Contract Management
- Technology Scouting
- Proposal Writing
- Proposal Management
- Marketing

Bayside Materials Technology

Owner - Columbia Maryland (1994 - Current)

Privately-owned business located in the Washington D.C. area helping Clients identify, create, and capture opportunities for funding by the Federal Government in technology research, development, and acquisition. Technical areas of expertise include advanced materials, biotechnology, electronics, photonics, energy, sensors, and manufacturing. Primary customers include DHS, DOD, NASA, NSF, DHHS, DOC, DOE, DOT, DOJ, and their respective labs, Centers of Expertise, and Logistic Centers. Customers include small/large business, non-profits, and academia. Ongoing efforts contribute to the creation of annual contracts in excess of \$30M. Ongoing projects include diagnostics and vaccines for medical countermeasures, sensors for ISR, biosurveillance, threat detection, and human performance, pain mgmt therapies, 3D visualization, blood wound products for trauma care, advanced ceramics, printable electronics, and advanced coatings.

Lockheed Martin Missiles and Fire Control

Manager, High Temperature Materials - Dallas, Texas (1993 - 1994)

Manager, Ceramic Technologies (1989 - 1993)

Senior Scientist, Materials Engineering (1988 - 1989)

Senior Research Scientist, Corporate R&D (1986 -1988)

Research Scientist, Corporate R&D (1983 - 1986)

Supervised a staff of 20 professionals and oversaw facilities dedicated to the development of advanced materials and cost-effective manufacturing processes for the Aircraft and Missiles Divisions to leverage in support of DOD customers. Team was responsible for all phases of technology development, acquiring new business, and serving as subject matter experts to acquisition programs and DOD.

- Developed innovative and leading edge technology in rapid prototyping of metal parts, ceramic radome materials for use on PAC-3, low cost oxidation resistant carbon/carbon composites, new grades of silicon nitride for hot structure applications, and a new class of preceramic polymer

based materials for use in missile and aircraft hot structure, including LO applications. Technical products resulted in over \$2B in new missile sales.

- Prepared, managed and presented successful proposals to DOD and NASA resulting in annual funding of ~ \$5M.
- Managed an annual IR&D, capital and overhead budget of ~ \$10M.
- Established a ceramics R&D capability in support of EM window and low observable hot structures development.
- Awarded the "Outstanding Inventor" honor for the first new EM window material to be transitioned in 30 years.

Bendix Corporation

Advanced Technology Research Center - Columbia, Maryland (1982 – 1983)

Developed visualization tools and models for metal powder flow in support of a new low cost manufacturing process

- Worked well with an interdisciplinary team of scientists and researchers
- Created and oversaw implementation of visualization tool
- Established a powder flow visualization lab to ensure proper testing and creation of best practices for application

Purdue University

Department of Mechanical Engineering – Lafayette, Indiana (1980 – 1982)

Active member of research team responsible for developing models/prototypes of canine joint motion

Ford Motor Company

Research and Engineering Center – Dearborn, Michigan (1976 – 1980)

Successfully performed test track modeling, experimental engine valve train analysis, as well as engine certification assembly and evaluation.

Affiliations

- Technical Director for the United States Advanced Ceramics Association (1993 – date)
- Member of notable industry and professional organizations, including:
 - American Ceramic Society
 - SPIE
 - Materials Research Society
 - NDIA

Awards & Patents

- Lockheed Martin Outstanding Inventor Award, 1999
- Keynote speaker at the Japan Ultra-High Temperature Materials International Conference, 2000
- Freitag, D., Beaman, J., Bourell, D., Laser Directed Fabrication of Full-Density Metal Articles Using Hot Isostatic Pressing," Patent 5,640,667, June 17, 1997
- Freitag, D.W. and Richardson, K.K., In-situ Reinforced Barium Aluminosilicate. Patent Number 5,358,912, October 25, 1994.

Education

- Purdue University
 - M.S. in Mechanical Engineering, emphasis on Design
 - B.S. in Mechanical Engineering (Highest Distinction, 4.0/4.0 GPA)
- Illinois Central College
 - A.A.S. in Automotive Technology

Additional

- Department of Defense Secret Level Clearance, established 1983