

A ONE STOP SERVICE FROM CONCEPTION TO PRODUCTION, TO DIVERSIFIED MARKET PENETRATION

ADVANCED MATERIALS

- Metallurgical Processes
- Aluminum Bonding
- Refractory Metal Bonding
- Reactive Metals
- Special Alloys

COATINGS AND SURFACE MODIFICATION

Deposition Processes for Metals, Alloys and Ceramic Compounds.

- Evaporation
- Sputtering
- Ion Plating
- Reactive Deposition Processes
 - Activated reactive evaporation
 - Reactive sputtering
- Chemical Vapor Deposition
 - Plasma Assisted Chemical Vapor
 - Electro & Electroless Deposition
- Thermal Spraying
 - High Velocity
 - Low Pressure
 - Conventional

APPLICATION AREAS

- Microelectronics
- Optoelectronics
- Tribology (friction & wear)
- Corrosion & Erosion
- Optics & Microelectronics
- Ultrafine Particle

And the emerging fields of Diamond, Cubic Boron Nitride and High T_c Superconductor film technologies.

SCOPE:

A comprehensive service organization to solve problems in the high technology world of advanced materials, materials processing, coating & surface modifications fields.

Our clients typically are either R/D, start-up, or prospering companies looking for a larger share of the market place or those seeking alternatives to stagnant in-house progress in changing bottom-line from red to black.

It may be advantageous to utilize our years of experience rather than training of Jr. personnel, re-training or hiring high salary management staff for start-up, new product development, manufacturing or marketing & sales.

OUR SERVICE INCLUDE:

- New applications analysis
- Coating method selection
- Material selection
- Testing of coated parts
- Characterization of processes and applications
- Pre-production qualifying
- Design, construction and installation of prototype and full-scale equipment on a TURNKEY basis.
- Financial streamlining via review of business plans, forecasts and budgets
- Marketing, sales and representative services
- Market diversification of product to new markets
- Analysis of Corporate Business and Marketing & Sales Plans to provide experienced opinions & solutions, to positively effect bottom-line.
- E-Commerce and Web Site design, installation & maintenance
- Free Trade Zone for cost savings with customs and taxes for spare parts, demo systems, etc.
- Seminars in marketing, sales and management

PROFESSIONAL SOCIETIES

American Vacuum Society
American Society of Metals
Materials Research Society
American Institute of Metallurgical Engineers
American Electroplaters & Surface Finishing Society
Manufacturers & Agents National Association

SAMPLE OF OUR CLIENTS

Aerobraz Corporation
Airco Temescal
Aerojet General
Amcry International
Battelle Columbus Labs
Coating Technology Corporation
Combustion Power Corporation
Crystallume Corporation
Fraunhofer Institute
Gencoa Ltd
General Electric Corporation
Greenfield Industries
Kelite Division\Witco Chemical
Jet Avion
Leybold GMBH
Miller Thermal Inc.
Multi-Arc Vacuum Systems
Ohlinger Industries Inc.
Naval Research Labs
R.C.A. Corporation
Scientific Coatings
Sermatech International
Spire Corporation
Sputtering Materials
Swedlow Incorporated
United States Air Force
Varian Associates
West Virginia University

BASIS OF OPERATIONS

Aulitmut International's Materials and Coatings Division maintains, a reserve of engineering manpower, including retired executives, consultants and academic personnel.

Most businesses from time to time need specialized technical, management and/or marketing and sales assistance. We offer a cadre of personnel, who cover a full gamut of the services on a as needed basis. We offer in-house seminars tailored to the clients needs to help keep your staff effective and updated in the latest emerging materials and coatings technologies.

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**IF YOU ANSWER "YES" TO ANY OF THE
QUESTIONS BELOW, WE CAN BE OF SERVICE**

IN THE SALES AREA

Want a larger market share of you present business ?
Are your present sales stagnant ?
Is your sales team in a rut ?
Have you exhausted your network of contacts ?
Can't quite get to the right person ?
Does your sales team have "tunnel vision" ?
Do you need help in focusing your sales effort ?

TO DIVERSIFY YOUR MARKET

Would you like new application ideas that yield profit ?
Want to change sales effort, from one industry to another ?
Another industry of interest, but lack the contacts ?
Want to know what your competition is doing ?
Need a objective view of your capabilities and limits ?
Don't know how to diversify into new markets ?
Need to define easiest new markets to pursue ?

ENHANCE THE TECHNOLOGY YOU OFFER

Need characterization of process.?
Need materials engineering to develop new products ?
Need testing of applications to capture a customer ?
Lack the high technology testing equipment ?
Can't get your product in a meaningful material tests ?
Need to define a "design of experiment" for practical use ?
Need characterization of materials ?

MANUFACTURING AND MANAGEMENT

Need to motivate your sales team ?
Need to streamline your facility for increased profit ?
Need help in locating and acquiring equipment to expand ?
Need a business plan prepared ?
Would like a infusion of cash or venture capital to grow ?
Want to pass source approval processes easily ?
Need help in meeting specific customer specifications ?



**Films & Coatings for
High Technology Applications**

- Microelectronics
- Optoelectronics
- Tribology, Wear
- Corrosion, Erosion

Materials Engineering

Marketing and Sales

Advanced Materials

Manufacturing

Management

Services

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