

SERVICES ASSOCIATED WITH
MATERIALS, IH2I® GAS FABRICATION AND
HYDROGEN MINER ELECTROLYZERS FOR
MATERIAL MANUFACTURING

SERVICE OFFERINGS UPDATE: A COMBINED SERVICES BRIEF

EMARENA®

8770 W BRYN MAWR AVE
STE 1300
CHICAGO IL, 60631

sales@emarena.com

MAXIMUM

About Emarena:

Emarena is focused on allied products and services used in Medical Engineering, Aerospace, Automotive and Marine sectors. Emarena's format in this area is as provider and franchisor of manufactured composites as particulate, powder and gas. Services include manufacturing, testing, installation and maintenance of machines for the production of industrial gasses including IH2I®. Work may be performed in house or on a Emarena approved site provided by the customer. Emarena looks forward to assisting with material manufacturing, education, demonstration and banking of your renewable energy for your allied services and products.

Service Retainer:

A retainer is required to perform work; as assessment or survey of work, quotation, patenting, trademarking, manufacturing, installation, decommissioning, lease, end of lease, research & development or third party grant fulfillment.

Hydrogen Miner Electrolyzer Lease:

Emarena provides lease and service options for Hydrogen Miner electrolysis machines for material manufacture of a reducing agent or for production of Hydrogen and Oxygen gas. Default lease option is as a Hydrolyzer which provides a low footprint solution where gas storage of substantial volume is not permitted nor feasible. Hydrogen Miner machines are designed for Point of Service gas generation. Emarena acknowledges the Academic need to educate and provides the JAX Series Hydrogen Miner for lease and lease to own.

On Site Research, Material Development and Manufacturing:

On site service offerings include research development and manufacturing using portable laboratory and custom manufacturing solutions. Currently mobile labs are as semi-truck research trailers and portable laboratory containers that may be commissioned for use with time sensitive completion of work.

External Laboratory Research and Instrumentation Services:

Emarena Corporation has opted to use external laboratory facilities including private and government facilities to expand service provision capabilities not possible by private companies. Through well developed networks, access to state of the art scientific equipment benefits the end consumer and is made possible by way of employees experience. Scientific services are conducted and overseen while equipment is accessed on a pay per use basis. Base scientific services, chemical, metric and metallurgical analytical services may be contracted, such as : 1) preliminary evaluation of average particle diameter 2) crystalline composition and impact on electrical flow 3) electrical frequency specific performance testing up and to reflow using MossBauer Spectroscopy or other methods. Other analytical and imaging instrument services may be contracted upon request.

Services and Charge Areas; a partial schedule post pandemic policy:

- Material development and scientific services retainer.
- Material development hourly R&D service charge.
- Emarena staff instrument services.
- Grant-writing and collaborative PI contracting.
- Third party scientific service window as supervised or in-house operation.
- Housing, auto and hotel fees and licenses at National Laboratory facilities fees.
- Per diem, research and instrument Fees:
- Post research upscale manufacturing services and fees.
- Specialized architectural and manufacturing facility design to optimize material manufacturing as pertains to biomedicine.
- Safety and storage for hydrogen manufacturing that varies by location local permitting and regulatory practice.
- Third party outsourcing for UL or Underwriting Labs certification.

No Warranty:: All products and service are offered in AS-IS with no warranty offered.

