

FEDERAL CAPABILITY STATEMENT

ADVANCED ENGINEERING | DIGITAL TECHNOLOGIES | ADVANCED MATERIALS

DoCare LLC is a Puerto Rico-based small business delivering integrated engineering and technology solutions that combine advanced materials, welding technologies, artificial intelligence, data science, software development, and systems integration for aerospace, manufacturing, research, and federal mission applications.

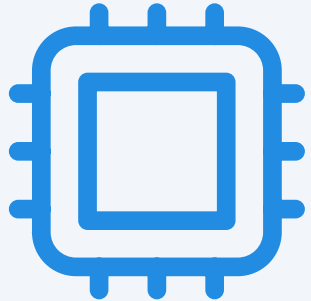
RESEARCH.
DEVELOP.
INTEGRATE.
MAKE A DIFFERENCE.

CORE CAPABILITIES



ADVANCED MATERIALS & WELDING

- Novel aluminum welding filler materials (NbB₂-reinforced)
- TIG/GTAW process development
- Lightweight structural joining and repair
- Materials processing and optimization
- Microstructure and property evaluation
- Hardness and porosity characterization
- Design of Experiments (DOE)
- Aerospace and space-relevant materials R&D



ARTIFICIAL INTELLIGENCE & DATA SCIENCE

- Machine learning and predictive modeling
- Statistical and multivariate analysis
- Operations research and optimization
- Data-driven process optimization
- Experimental data analysis
- Model validation and performance evaluation
- Decision-support systems



SOFTWARE, CLOUD & SYSTEMS INTEGRATION

- Custom software development
- Scalable cloud solutions (AWS)
- Database architecture and ETL
- Systems integration and APIs
- Business intelligence and dashboards
- Secure and containerized environments
- Digital engineering tools
- Customer discovery and market validation
- Technology commercialization support

COMPANY DATA

Legal Business Name
DOCARE LLC

Location
Puerto Rico, USA

UEI
WMB7JVTP6X1

CAGE
87HP0

SAM.gov Registration
Active (Expires Jan 26, 2027)

Business Type
Small Business
Hispanic American Owned
Minority-Owned Business
For-Profit LLC

Website
www.docare.pro

NAICS CODES

Current SAM.gov Primary
541511
Custom Computer
Programming Services

Additional Relevant for
Matchmaking

541713
Research and Development
in Nanotechnology

541330
Engineering Services

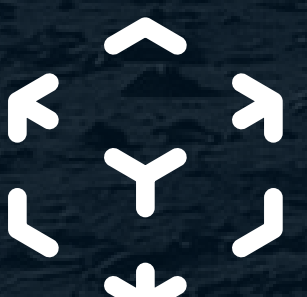
541715
R&D in the Physical,
Engineering, and Life
Sciences

FEATURED R&D PLATFORM

NOVEL WELDING MATERIAL FOR LUNAR STRUCTURES

NbB₂-REINFORCED ALUMINUM FILLER MATERIALS

A new generation of aluminum welding filler materials reinforced with niobium diboride (NbB₂) nanoparticles, designed to enable stronger, lighter, and more reliable metallic structures for lunar and space applications.



NbB₂
NANOPARTICLE
REINFORCEMENT

Enhanced mechanical
properties and structural
performance



LIGHTWEIGHT &
DURABLE

Supports high-
performance joining and
repair of aluminum
structures



SPACE-RELEVANT
APPLICATIONS

Enabling manufacturing,
assembly, and in-situ repair
for lunar and space
missions

STRONGER
LIGHTER
FURTHER TOGETHER

MATERIALS FOR A MORE RESILIENT AND SUSTAINABLE FUTURE IN SPACE

WHY DOCARE



Multidisciplinary Expertise

Materials, welding, AI,
software, and systems
integration in a unified
approach.



Research-Backed Innovation

Experimental and
data-driven technology
development with
measurable results.



Federal R&D Experience

NSF SBIR Phase I award
with proven technical
execution and
commercialization path.



Customer-Focused Technology Development

Experimental and
data-driven technology
development with
measurable results.

FEDERAL R&D EXPERIENCE

NSF SBIR Phase I Award No. 2350202

Machine learning, data
engineering, optimization,
and secure cloud-based
technology development.

TECHNICAL TEAM

Andrés F. Calle Hoyos
Founder, CEO & PI

Advanced Materials |
Welding Optimization | AI |
Commercialization

Norman Burgos
Principal Investigator

Materials Research
Welding Process
Development
Experimental Validation

Luz Adriana Gaitán Veloza
Technical Project Manager
& Lead Data Scientist

Statistics | Machine Learning
Operations Research |
Validation

Alan López García
Senior Software Architect

Cloud | Systems Integration
Security | Scalable
Solutions

Ángel Maldonado Sáez

Data Engineering &
Systems Integration Lead

Data Warehousing | ETL |
AWS
Business Intelligence |
Infrastructure

From research to
real-world solutions.