

About Starfire Industries LLC

Champaign, IL USA (near the University of Illinois)

- 194,000 ft² engineering, laboratory, processing, production and distribution space
- Vertical integration from R&D, manufacturing, applications testing and customer support
- “Deep Tech” nuclear, plasma and radiological team

Particle Accelerator Solutions:

- **nGen® portable neutron generators**
- **Centurion® ultra-compact MeV particle accelerators**

Plasma Processing Solutions:

- **IMPULSE® pulsed power modules for sputter/etch**
- **RADION™ microwave plasma sources for PECVD/etch**

Member of:

- Center for Plasma-Material Interactions
- National Center for Defense Manufacturing & Machining
- Internship/Co-Op, M.S. & M.Eng. Program



Two Business Groups Within One Organization

Products on 6 Continents + Space!

Patent Portfolio Across Products

Starfire's Product Families

PARTICLE ACCELERATOR SOLUTIONS

nGen®

Build/Sell Sealed
Neutron Generators

Design/Build
Hardware For Custom
OEM Solutions

nGen® Systems
Solutions For End-
Users

Centurion®

Build/Sell LINACS

Custom OEM Sales To
Development
Partners

Protons/Neutrons "As
A Service"

PLASMA SOURCE SOLUTIONS

IMPULSE®

Build/Sell Pulse
Modules

Design/Build Systems
Using IMPULSE®

Coatings "As A
Service"

RADION™

Build Microwave
Plasma Sources

Atmospheric Coating
System Solutions

Vacuum
Etching/PECVD
Systems Solutions

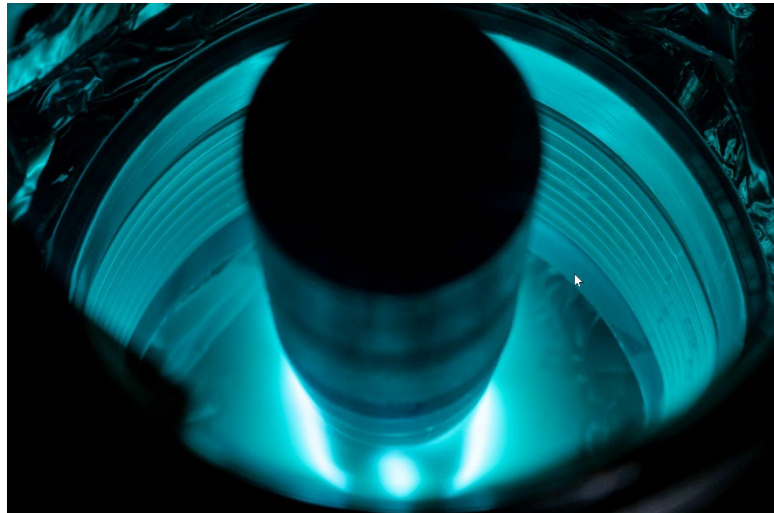
Plasma Source Solutions



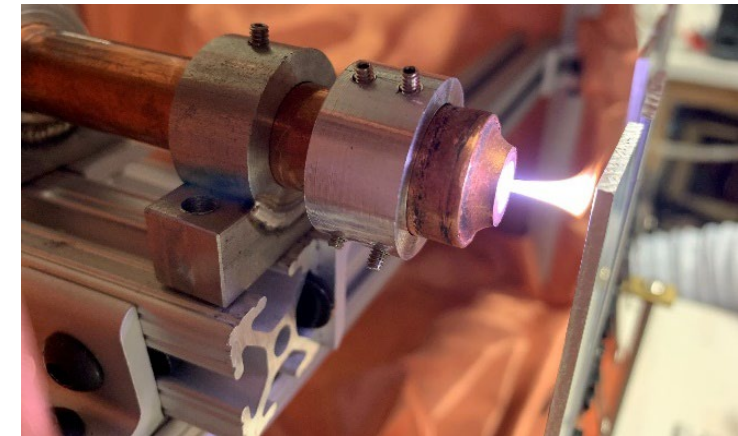
**Patented IMPULSE® + Positive Kick™
Next-Generation Thin-Film HiPIMS PVD/Etch**



Patented RADION™ Microwave Plasma Sources



Pat. Pend. Radial & Inverted Cylindrical Magnetron Systems



Pat. Pend. Atmospheric Cold Plasma Jet Coatings

Plasma Source Markets

Aerospace/Defense



Surface Wave Plasma Etching For EUV Lithography



Photovoltaics/Electronics Coatings on Plastics/Glass



Superconductors



Wafer Hard Disk PVD/Etch

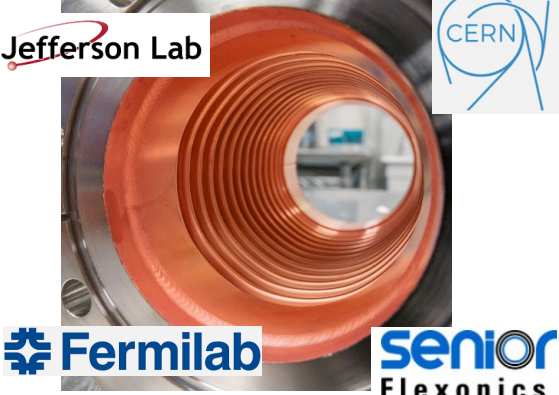
Nuclear Fuel Coatings



Decorative Coatings



Electrochemical Replacements

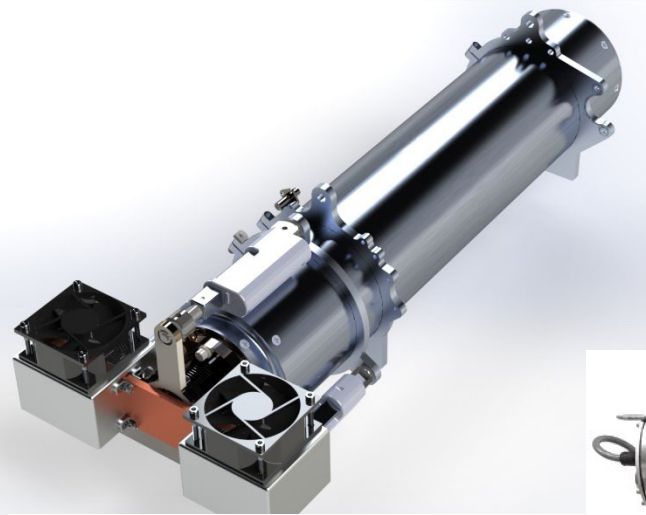


at-C Diamond Tribological Anti-corrosion Coatings

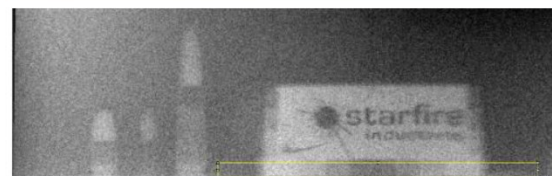
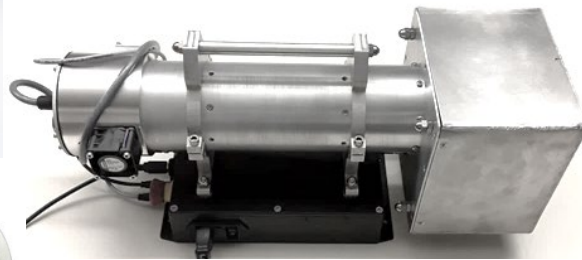


Optical Coatings

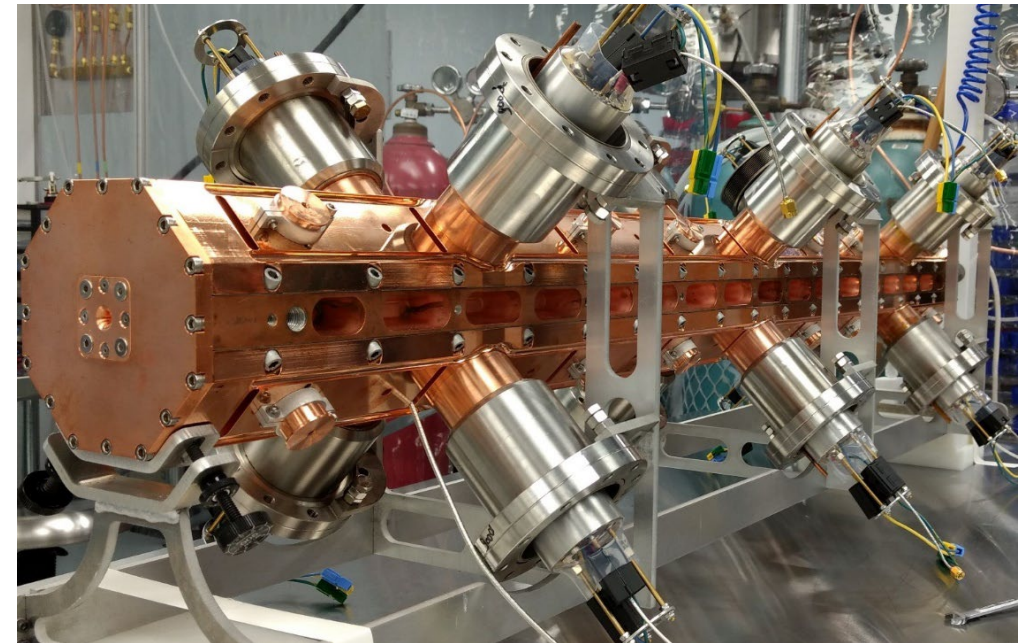
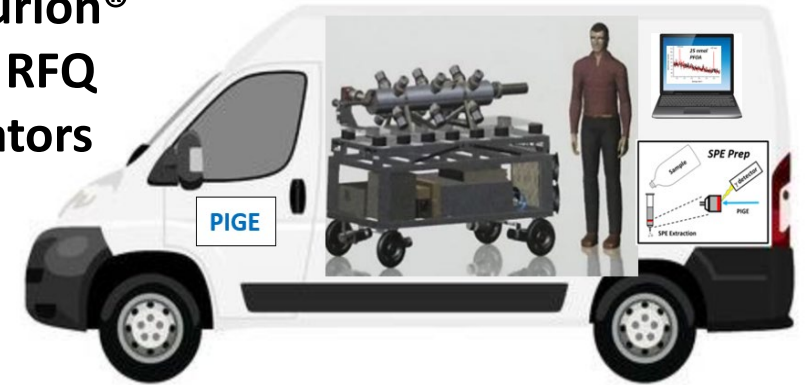
Particle Accelerator Solutions



**Patented nGen®
Portable Sealed
Neutron Generators
w/Emission On End**



**Patented Centurion®
Ultra-Compact RFQ
Linear Accelerators
For Protons &
Deuterons**



Particle Accelerator Markets

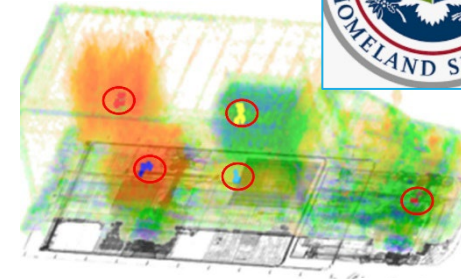
Parcel/Luggage Inspection



Nuclear Safeguards



Minerals Analysis



Vehicle/Cargo Inspection



Jacobs

Challenging today. Reinventing tomorrow.

Environmental Agriculture Sensing



p-Linac

Implementation of a room for deep cancer treatment



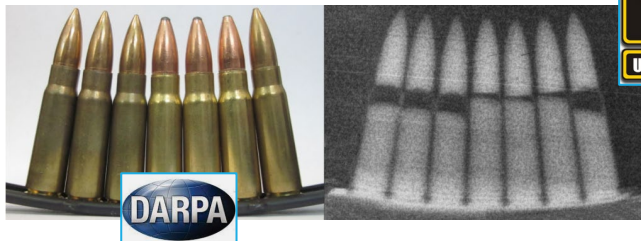
Deep tumor treatment room

Eye and pediatric treatment room

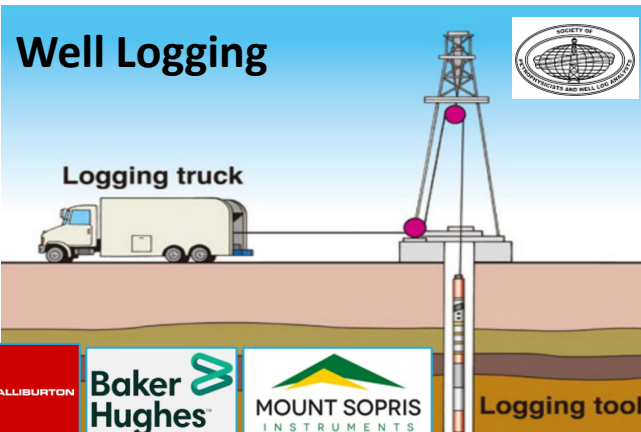
Radiobiological experimental room

Proton Therapy PET Isotopes

Radiography / Munitions



Well Logging



US-Owned Domestic Small Business
DoD NISPOM Experience

Vertically-Integrated, Domestic Manufacturing
Electromagnetic RFQ & Sealed Electrostatic Accelerators
Industrial Plasma Sources & Pulsed Power Systems

Supporting Industries Worldwide & In Space

