

Innovating safe, clean, and healthy technologies for the interconnected tomorrow 616 S Adam Ln Idaho Falls, ID 83401-4629 Tel.: 208.346.1253 http//:www.pearlhilltech.com We are proud to be an Equal Employment Opportunity and Affirmative Action employer

CAPABILITY STATEMENT

Founded in 2007 as an Idaho Corporation, Pearlhill Technologies LLC has developed unique capability for (1) nuclear waste management, (2) fluorine chemistry, (3) CO₂ capture and utility, and (4) materials and electronics. Pearlhill's higher purpose is to continue innovating safe, clean, and health centered technologies for the interconnected tomorrow.

Nuclear waste management

- Extraction of non-radioactive fluorine content from depleted uranium fluoride byproducts of uranium isotopic enrichment plants (UIEPs). [US Pat. #8,367,026].
- Production of depleted uranium oxide byproduct.
- Patented SBIR, (Phase I & II) technology for production of sulfur tetrafluoride from uranium tetrafluoride.
- Chemical engineering and scientific support for transuranic waste management.
- Radiological services for waste management.

Manufacturing fluorinated products

- Innovation of processes to create nonmetallic inorganic fluorides from uranium tetrafluoride (NIFUT), including sulfur tetrafluoride (SF₄), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃) gases. [US Pat. #8,231,855; 8,163,262].
- Expertise in fluorine chemistry and chemical technology for versatile use of sulfur tetrafluoride gas for carrying out many fluorination processes to produce products for the electrical-, semiconductor-, agrochemical-, pharmaceutical-, resins- and the coatings industries.

Carbon capture and CO₂ utility

- SBIR technology for production of 99.995% pure CO₂ at coal plants, [US Pat. #8,636,968].
- Utility of CO₂ for agricultural and other applications.

Fabrication of electronic sensors

- Plant memristance biosensors.
- Magnetoreception sensors.

TIN: 71-1032501 DUNS: 800333002 CAGE Code: 4U6Q1

NAICS Codes:

- 325120 Industrial Gas Manufacturing
- 56221 Waste Treatment and Disposal
- 562910 Remediation Services
- 561210 Facilities Support Services
- 562920 Materials Recovery Facilities
- 5417 Scientific R&D Services
- 541990 Professional, Scientific & Technical Services

Company Information

Business References

International Isotopes

Development of fluorine extraction from lowlevel radioactive uranium tetrafluoride

MarCom

Teaming partner for Title 8(a) certification, radiological, waste management and remediation

• Energy Solutions

Partner for commercialization of NIFUT technology and disposal of depleted uranium oxide byproduct

- National Science Foundation
 Small Business Innovation Research (SBIR) Awards
- Idaho Power Carbon capture and CO₂ supply
- Boise State University R&D collaboration
- Freedom Photonics

Partner for commercialization of electronic sensors