Seshat's Bones™ Business Plan

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Executive Summary

Seshat's Bones™ is the world's first open-prototype of Seshat's Composites—a pioneering, fully organic material made by combining **hemp oil** and **hemp carbon** into a biodegradable yet high-performance solid.

This first validated material batch uses **hemp biochar**—the most readily available carbon allotrope—to create a foundational composite that proves the Seshat Theory:

"Any hemp-derived carbon, when combined with hemp oil and cured, can yield a strong, moldable, sustainable composite with military, industrial, and consumer-grade applications."

Mission

To prototype the first **Seshat's Bones™** composite formula using accessible, off-the-shelf materials in order to demonstrate:

- The **viability** of hemp-based carbon-oil composites
- The **scalability** of modular carbon allotropes
- The **impact** of regenerative material systems

Batch One: Seshat's Bones™ (Biochar Edition)

Materials

- 3kg Hemp Biochar – Sourced from Amazon (clean, food-safe)
- 1L Organic Hemp Oil – From Corn Crib health food store

Formulation Method

1. Incremental addition of biochar to oil until a moldable paste is achieved (3:1 ratio).
2. Hand-pressed into flat panels, tiles, or shaped molds.
3. Low-temp oven bake (120–150°C for 2–6 hours).
4. Surface hardening, bond integrity, color, texture observed.

Modular Materials Platform

Seshat's Composites™ are defined by a **flexible formula**:
Hemp Carbon Allotrope + Hemp Oil Binder → Cured Composite Material

Allotrope	Source	Applications
Biochar	Amazon / pyrolysis	Tiles, insulation, interior panels
Carbonized Fiber	Bast fiber pyrolysis	Strength-enhanced sheet goods
Activated Carbon	Processed biochar	Filters, masks, environmental tech
Carbon Black	Oil-burning byproduct	Colorant, anti-static parts
Graphitic Hemp	Advanced R&D	Conductive gear, lightweight armor

Markets & Applications

Sector	Use Case	Product Examples
Defense	Biodegradable armor, panels	Ballistic boards, drone frames
Construction	Organic composite tiles	Pavers, insulation blocks
Consumer	Bioplastic replacements	Phone cases, tools, utensils
Space/Tech	Light, conductive composites	Payload shells, radiation tiles

Strategic Value

- **Sustainability**: 100% plant-derived, compostable potential
- **Dual-Use Potential**: Civilian + military-grade innovation
- **Low-Tech Production**: Enables decentralized fabrication
- **Infrastructure Future**: Hemp concrete alternative

Brand & Product Identity

- **Name**: *Seshat's Bones™*
- **Tagline**: *The first body of the organic revolution*
- **Material Class**: Hemp Carbon Composites
- **Parent Tech**: Seshat's Composites™

Batch Cost Estimate (Prototype Only)

Item	Cost Estimate
Hemp Biochar (3kg)	$60
Hemp Oil (1L)	$25
Molding Materials	$20
Oven/Heat Source Use	$10
Tools/Safety Gear	$15
Total	**$130**

Roadmap to Scale

- **Week 1**: Bake and document Seshat's Bones™
- **Week 2–3**: Refine mix, test curing profiles
- **Week 4**: Publish results & photos
- **Month 2**: MVP (tiles, blocks, coasters)
- **Month 2–3**: Strength, density, conductivity testing
- **Month 3**: Patent + trademark application
- **Month 3–5**: Seed/Pre-Seed round + grant proposals

IP & Trademark Protection

- **Product Class**: Organic composite with carbon-oil matrix
- **Trademark**: *Seshat's Bones™*
- **Patent Claim Scope**:
  - Organic binder + hemp carbon formula
  - Curing process + ratio framework
  - Modular input system by carbon allotrope

Global Impact

Supports the **UN SDGs** and defense innovation goals:

- **SDG 9**: Industry, Innovation, Infrastructure
- **SDG 12**: Responsible Consumption
- **SDG 13**: Climate Action
- **SDG 16**: Peace & Ethical Defense Tech