AUTONOMOUS RESOURCE CORPORATION

Accelerating U.S. Materials Innovation through AI-Driven Manufacturing

GENESIS LAUNCH PARTNER | ORNL

THE STRATEGIC MATERIALS CRISIS

STRATEGIC VULNERABILITY

Fragile supply chains for defense and energy components (magnets, reactor alloys) leave the U.S. exposed to external disruptions.

SLOW INNOVATION CYCLE

Material discovery to qualification traditionally takes decades—far too slow to meet emerging national security and energy needs.

UNDERUTILIZED AI POTENTIAL

Legacy manufacturing pipelines fail to exploit modern high-performance computing, missing the opportunity to shorten design-to-production cycles.

Critical components like rare-earth magnets are central to the supply chain crisis.

THE "AI-TO-ATOM" PLATFORM

AI + MANUFACTURING INTEGRATION

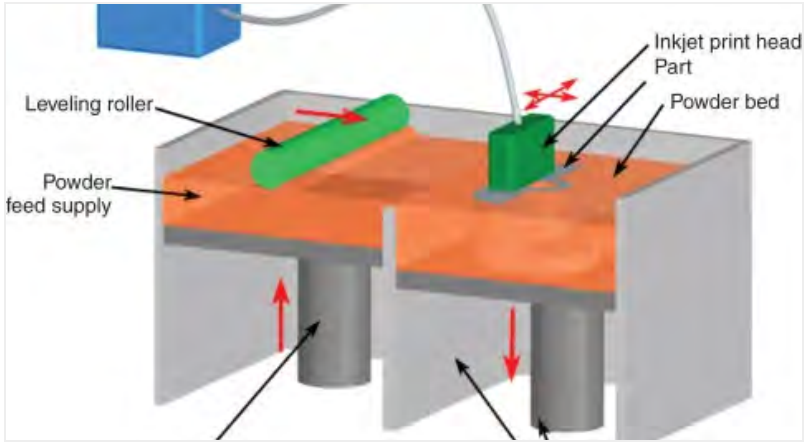
Closing the loop between digital models and physical fabrication to drastically reduce time from discovery to production.

ORNL GENESIS PARTNERSHIP

Exclusive commercialization of Oak Ridge National Laboratory's cutting-edge materials processes and AI models.

DESKTOP METAL INFRASTRUCTURE

Immediate production capability via an installed base of industrial binder-jet 3D printing systems.



BINDER-JETTING PROCESS ARCHITECTURE

INDUSTRIAL SCALE PRODUCTION

A NATIONAL INFLECTION POINT

LATE 2025

PROJECT GENESIS

The Department of Energy launches a major initiative to transform American science and manufacturing through frontier AI.

CURRENT STATE

FEDERAL MOBILIZATION

Unprecedented government support for technological leapfrogging to secure domestic supply chains and military readiness.

MARKET TREND

INVESTOR APPETITE

Surging demand for "AI-to-atom" platforms that bridge the gap between digital intelligence and physical production.

STRATEGIC FIT

ARC ADVANTAGE

Positioned as a Genesis launch partner, ARC is uniquely aligned with this wave of national urgency and funding.

MULTI-BILLION DOLLAR STRATEGIC MARKETS

BEACHHEAD APPLICATIONS

Rare-Earth-Free Magnets: Critical for EV motors and defense systems; $20B+ global market opportunity.

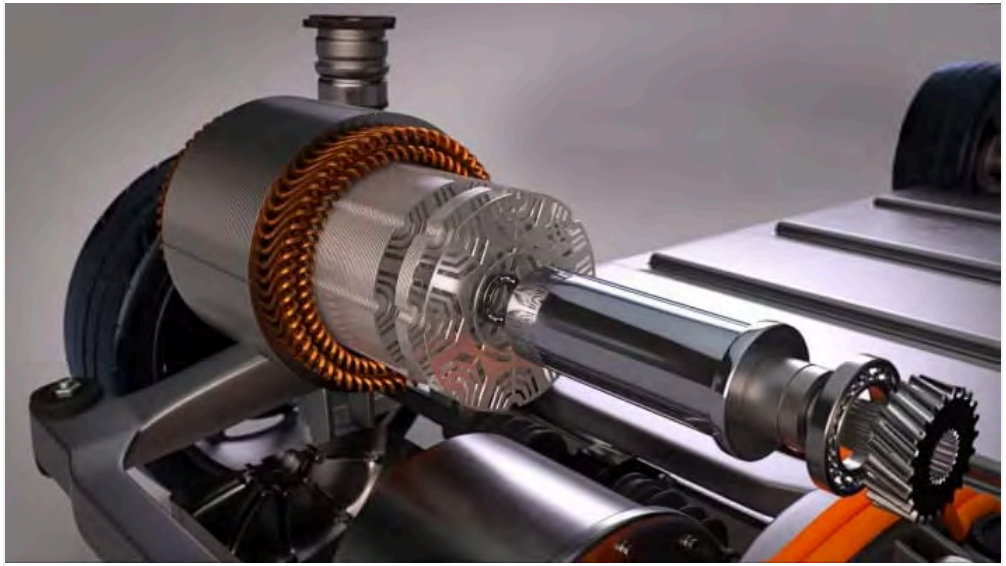
Turbine Superalloys: High-temperature coatings for aerospace and power generation efficiency.

SMR Materials: Specialized components for Small Modular Reactors to enable safer nuclear energy.

Multi-Billion $

TOTAL ADDRESSABLE MARKET (TAM)

Aligned with U.S. national strategic spend in advanced manufacturing and materials.



Precision-engineered components for high-growth sectors in defense, energy, and aerospace.

UNMATCHED COMPETITIVE MOAT

MANUFACTURING CAPACITY

Immediate production capability via Desktop Metal's global installed base. Unlike startups, ARC delivers from Day 1.

EXASCALE COMPUTE

Privileged access to ORNL's Frontier supercomputer—the world's first exascale system—for high-fidelity AI training.

PROPRIETARY DATA & IP

Over a decade of materials science data across metals, ceramics, and polymers, forming an invaluable AI feedstock.

FRONTIER: THE "BRAIN" OF THE AI-TO-ATOM PLATFORM

UNRIVALED COMPUTATIONAL POWER FOR MATERIALS DISCOVERY

DEFENSIBILITY & IP: THE ARC MOAT

PROPRIETARY DATA MOAT

10+ years of Desktop Metal R&D data + AI-generated experimental data (200+ experiments/week). An irreplaceable, self-reinforcing data advantage.

IP PORTFOLIO

100+ patents and applications acquired via Desktop Metal, covering binder jetting, materials, and sintering processes.

ARCNET NETWORK EFFECT

Exclusive federation with ORNL's INTERSECT architecture and **Frontier supercomputer access**, creating a unique technical barrier to entry.

REGULATORY BARRIER

First-mover advantage in qualifying AI-validated materials for **mission-critical defense and energy applications** (e.g., Project Genesis).

ARC's defensibility is built on the convergence of proprietary data, IP, and exclusive government-backed infrastructure.

ADAM & ARCNET

FLAGSHIP PLATFORM: ADAM

Autonomous Discovery & Advanced Manufacturing

A closed-loop testbed connecting exascale supercomputing with edge additive manufacturing for rapid R&D cycles.

Production-Ready Hardware

Distributed fleet of industrial binder-jet systems capable of fabricating complex metal, ceramic, and polymer parts on demand.

Proprietary Software Stack

Predictive process algorithms, digital twin simulations, and multi-agent control systems that learn from every build.

SCALING ROADMAP: ARCNET

Expanding the national "nervous system" for industrial AI beyond the initial ORNL pilot.

H1 2026 Deploy 2 Lab Nodes and core platform infrastructure (PKI, basic scheduler).

H2 2026 Scale to 10–20 Nodes; integrate multi-region routing and ORNL bridge MVP.

2027 Scale to 100+ Nodes; national-scale operations with automated replication policies.

VALUE-BASED REVENUE STREAMS

PHASE 1: NEAR-TERM

High-Value Manufacturing Services

Contract-based solutions for government agencies and large OEMs. Revenue generated through R&D contracts, grants, and joint development agreements for critical component innovation.

PHASE 2: MID-TERM

Scale-Up to Production Supply

Transitioning to low-volume production of proven material processes. Flexible "capacity on demand" model using distributed printer nodes, commanding premium margins for mission-critical parts.

PHASE 3: LONG-TERM

Future Platform Licensing

Offering ARCNet + ADAM software as a service or licensed platform. Recurring revenue streams via subscription or usage-based fees for enterprise customers' on-site production lines.

CORE VALUE PROPOSITION

*Compressing **a decade of R&D into a single year** to ensure national supply chain security.*

SEASONED LEADERSHIP & TECHNICAL EXPERTS

Bryan Wisk

CEO & FOUNDER

Seasoned investor-operator with 20+ years in global capital markets. Founder of Arc Public Benefit Corp. Expert in risk management and strategic finance.

Paul Adams

PRESIDENT & CO-FOUNDER

Former Head of Morgan Stanley Healthcare Services M&A. Led $100B+ in M&A deals and $22B in financings. Expert in operational strategy and execution.

Dr. Leo Christodoulou

CHIEF TECHNOLOGIST

Former Boeing Chief Technologist and Director of DOE Advanced Manufacturing Office. DARPA veteran and co-inventor of XD Alloys.

ARCNET TECHNICAL ORGANIZATION

Lean, senior-heavy engineering team (**60% Senior/Staff**) leveraging AI tooling to amplify output. Focused on high-value architectural decisions in distributed systems, HPC integration, and security.

PROVEN EXECUTION & STRATEGIC ASSETS

LATE 2025

GOVERNMENT LAUNCH PARTNER

Selected as a launch partner for the **DOE's Project Genesis**, anchoring ARC within the flagship national program for AI-driven manufacturing.

SEPTEMBER 2025

STRATEGIC ACQUISITION EXECUTED

Successfully acquired **Desktop Metal (DM)**, instantly gaining a global installed base, 10+ years of R&D, and dozens of critical patents.

CURRENT STATE

PLATFORM DEPLOYMENT IN PROGRESS

The first integrated **ADAM platform** is already operational at ORNL's Manufacturing Demonstration Facility, executing autonomous R&D cycles.

PIPELINE

STRATEGIC INDUSTRY ENGAGEMENT

Exploratory discussions underway with **defense agencies and industrial OEMs** for rare-earth-free magnet and turbine blade applications.

24-MONTH EXECUTION ROADMAP

Q1 2026

GENESIS DEMO

Lighthouse Problem validation for DOE; focus on urgent nuclear component benchmarks.

MID-2026

ADAM DEPLOYMENT

Full pilot deployment at ORNL MDF; integration of Frontier supercomputing with live production cells.

LATE 2026

MAGNET BREAKTHROUGH

10x reduction in development time for rare-earth-free permanent magnets vs. historical norms.

2027

ARCNET SCALE-UP

Expansion to 100+ nodes nationwide; qualification of first SMR reactor components.

$70M SEED ROUND

THE DEAL

$70,000,000

Uncapped SAFE | 25% Discount

- Aligning early investors with future Series A upside.
- Calibrated for deep-tech scope and strategic asset integration.

USE OF FUNDS

- Integration and upgrades of acquired Desktop Metal equipment.
- Hiring of 15–20 top-tier engineers and materials scientists.
- Deployment of ARCNet pilot nodes and ADAM platform at ORNL.
- Operational expenses for Genesis partnership milestones.

Targeting key value-inflection points before priced Series A.

Runway: 18–24 Months

TECHNICAL VALIDATION & INITIAL CONTRACTS

TOTAL ADDRESSABLE MARKET: AUTONOMOUS PROPULSION

MARKET INFLECTION

Mass-Producible Defense Systems

Shift from low-volume, high-cost missiles to high-volume, autonomous systems like Anduril's Barracuda-M.

COMPONENT DEMAND

Critical Micro-Turbine Supply

ARC is the only domestic provider capable of high-volume, high-temperature MAR-M 247 blisk production.

12.51%

CAGR: AUTONOMOUS MILITARY WEAPONS MARKET (2024–2030)

The "Arsenal of Democracy": High-volume deployment of autonomous cruise missiles.

APPENDIX: NDA REQUIRED

$200M PROOF OF CONCEPT: BLISK PRODUCTION

CONTRACT SCOPE

40,000 Part Order

High-performance bladed disks (blisks) for autonomous propulsion systems.

UNIT ECONOMICS

$5,000 Per Part

Premium pricing for mission-critical, high-temperature superalloy components.

FULFILLMENT TIMELINE

Current Calendar Year

Rapid scale-up and delivery scheduled for completion in 2026.

TOTAL CONTRACT VALUE

Precision-engineered blisk for Anduril's Barracuda-M autonomous cruise missiles.

APPENDIX: NDA REQUIRED

ADVANCED MATERIAL VALIDATION: MAR-M 247

MATERIAL EVOLUTION

MAR-M 247 Superalloy

Transitioned from CM-247 to MAR-M 247, providing superior high-temperature creep resistance and durability for propulsion.

MANUFACTURING PLATFORM

Desktop Metal Shop System

Utilizing ARC's wholly-owned subsidiary infrastructure for high-speed, binder-jet additive manufacturing.

PERFORMANCE TARGETS

≥98% Sintered Density

Exceeding cast baseline mechanical properties (1275 MPa UTS) with AI-optimized sintering protocols.

12 Mo → 4 Mo

ADAM PLATFORM VALIDATION ACCELERATION

Desktop Metal Shop System: The production engine for high-volume superalloy components.

APPENDIX: NDA REQUIRED

POWERING THE FUTURE OF AUTONOMOUS DEFENSE

STRATEGIC ALIGNMENT

ARC + Anduril Partnership

Supporting the "Arsenal of Democracy" by providing high-volume, low-cost propulsion components for autonomous systems.

PROPULSION ADVANTAGE

Barracuda-M Integration

ARC-manufactured MAR-M 247 blisks enable the high-thrust, low-cost requirements of the Barracuda-M cruise missile family.

100% DOMESTIC PRODUCTION | SUPPLY CHAIN SECURITY

Anduril Barracuda-M: Powered by ARC's AI-driven additive manufacturing platform.