

The FIRST Minnesota Aerospace Machining Plant in Bengaluru India.

Strategic Impact:

- Substantial cost competitiveness while maintaining absolute U.S. quality control.
 - Supply chain resilience achieved through strategic in-country sourcing.
- Unrestricted capability and capacity expansion to support long-term global growth.

Keys to Successful Supply Chain US/ Bengaluru connection With LCCSGI/ Orluck

- Spend US \$ 1 million Spend get \$200 K in savings / cash flow
- Set your own Mfg Cell Supply Chain, Engineering Center
- Over 20 years experience..and Connectivity Bengaluru India



Your Global Partner for Success

- Low Cost Country Sourcing Group, Inc. (LCCSGI)
- Experts in Low Cost Strategic Sourcing, Manufacturing, and Engineering.
- Formed in 2016 with over 20 years of global sourcing experience.
- Trusted by clients such as United Technologies, Collins, and Medtronics.



L C C S G I

The First Minnesota Aerospace Machining Plant in Bengaluru, India

Strategic cost competitiveness. U.S. quality control.

Unrestricted capacity for global growth.

Your Global Partner for Success

Low-Cost Country Sourcing Group, Inc. (LCCSGI)

Founded in 2016 with over 20 years of global sourcing experience, LCCSGI helps U.S. manufacturers unlock the cost advantages and engineering talent of Bengaluru, India — without sacrificing quality or control.

Trusted by industry leaders including Raytheon and Caterpillar.

40+

Years of Global Sourcing Experience

35+

On-Ground Team in Bengaluru

40+

Skilled Engineers

The Opportunity

U.S. manufacturers face mounting pressure to scale operations while controlling costs. LCCSGI bridges Minnesota and Bengaluru to deliver:



Cost Arbitrage

25–40% reduction in total operational costs through optimized labor rates and competitive sourcing.



U.S. Quality Standards

Full U.S. quality management and oversight with NADCAP-certified processes.



Scalable Capacity

Expand overhead capacity up to 10x without building new U.S. infrastructure.



No Capex Needed

Rather than adding expensive and complex technology, leverage capacity that that exists already accelerating savings realization

The 24/7 Minnesota–Bengaluru Workflow

Minnesota, USA — Strategic Hub

U.S. Program Management

Based near Minneapolis, MN — aligned with your business goals and time zone.

Client Collaboration

3D scanning, scope definition, and project initiation happen locally. Data is transmitted to India at close of U.S. business.



Bengaluru, India — Execution Hub

40+ Engineers

Parametric CAD modeling, CNC/CMM programming, CAE validation, and prototype manufacturing.

Morning Delivery

Completed drawings, inspection reports, and production updates waiting for the U.S. client at 8:00 AM.

FOUR PILLARS DRIVING YOUR GLOBAL SUPPLY CHAIN



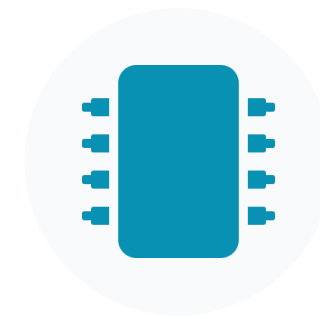
Machining

Complex 3, 4, and 5-axis precision machining with advanced CNC capabilities.



Manufacturing

Comprehensive assembly, contract manufacturing, and custom fabrication.



Electronics Assembly

High-quality electrical and cable assemblies with precision PCB design.



Engineering Services

End-to-end design, CAE analysis, reverse engineering, and tooling support.

Direct Labor Cost Advantage

Role	U.S. Annual Salary	India Annual Salary	Savings
Machinist	\$40–60K	\$5K	~88%
Programmer / Engineer	\$60–80K	\$20–30K	~64%
Electronic Assembly	\$24–30K	\$6–8K	~74%
Welding Assembly	\$50–70K	\$24–30K	~55%

Expand overhead capacity by up to 10x without sacrificing localized U.S. quality management.

ROI & Savings at Scale



20–25%+

Guaranteed ROI
on scaled operations



30–50%

Cost savings across
machining & assembly



\$500K+

Saved per 10,000-hour
contract benchmark

Contract Parameters: Minimum 5,000+ hours • Retainer contract only • Minimum \$500K–\$1MM package RFQs

Scalable Impact:

Engineering savings scale to \$1.2M and machining savings scale to \$1.4M at 40,000 hours.

Engineering Capabilities

English-speaking professionals with 7+ years of experience in mechanical and electrical engineering for the aerospace and medical sectors.

Reverse Engineering

- 3D scanning to point cloud data
- Parametric CAD model recreation
- Detailed drawing creation

Design & Validation

- CAD/CAM drawing verification
- 3D modeling & 2D-to-3D conversion
- Comprehensive CAE validation

Tooling & Support

- Value engineering
- Mechanical analysis
- Jigs, fixtures & gauge design

CASE STUDY

Orluck Aerospace — Scaling Aerospace Precision

Peter Orluck, CEO of Twin City Metal Works (Elk River, MN) — a leading manufacturer of high-precision machined products for top-tier global aerospace companies.

The Three-Phase Roadmap

1

Operational Setup

Identified Bengaluru as the optimal aerospace hub. Executed groundwork for plant setup and local talent acquisition.

2

Facility Commissioning

Launched a 10,000 sq. ft. machining facility. Connected with technology partners and integrated global quality standards.

3

Joint Venture

Structured multimillion-dollar JV investments and secured financing to accelerate expansion.

Orluck Industries — Results



The Milestone

Successfully established a 10,000 sq. ft. machine shop equipped with high-precision CNC and advanced inspection capabilities in Bengaluru.



The Result

Twin City Metal Works realized 30% to 50% cost savings across machining, fabrication, and assembly while significantly reducing lead times.



The Talent Advantage

Gained immediate access to India's deep engineering and technical talent pool to support long-term global growth.

Strategic Partnerships for Scale

Moving beyond transactional sourcing to build long-term, scalable infrastructure.



Turnkey Operations

Complete setup and management of dedicated manufacturing operations in India — your own 5-axis cell in Bengaluru.



Joint Ventures

Facilitating JV opportunities between U.S. and Indian companies for shared risk and maximized upside.



Leadership Continuity

18-month contracts for key LCCSGI personnel to oversee implementations and ensure operational stability.

Leadership Team

Vivek Kamran

CEO, LCCSGI

+1 (612) 636-1608
Minnesota, USA

Peter Orluck

CEO, Twin City Metal Works

+1 (320) 420-7054
Elk River, MN

India Operations Team

Nagaraj Shivashimpiger — Supply Chain Director

Aditya S — Quality Manager

Krishnamurthy M — Operations Head

U.S. Operations Team

Arun Sharma — Program Manager, USA

Kaustubh Sharma — Aerospace Advisor

Your Pathway to 20%+ Margins

01

Supply Chain Audit

Identify precision machining, fabrication, or assembly bottlenecks.

02

Retainer Engagement

Secure an LCCSGI yearly retainer contract — saving up to 30% over ad-hoc services.

03

Joint Venture Exploration

Begin structuring a dedicated India facility modeled on the Orluck success.

LCCSGI — Low Cost Country Sourcing Group, Inc.

464 Lake Wabasso Court, St. Paul, MN 55126

Phone: 612-636-1608 | www.lccsgi.com

Your Bengaluru Connection in USA Mn & Bengaluru India

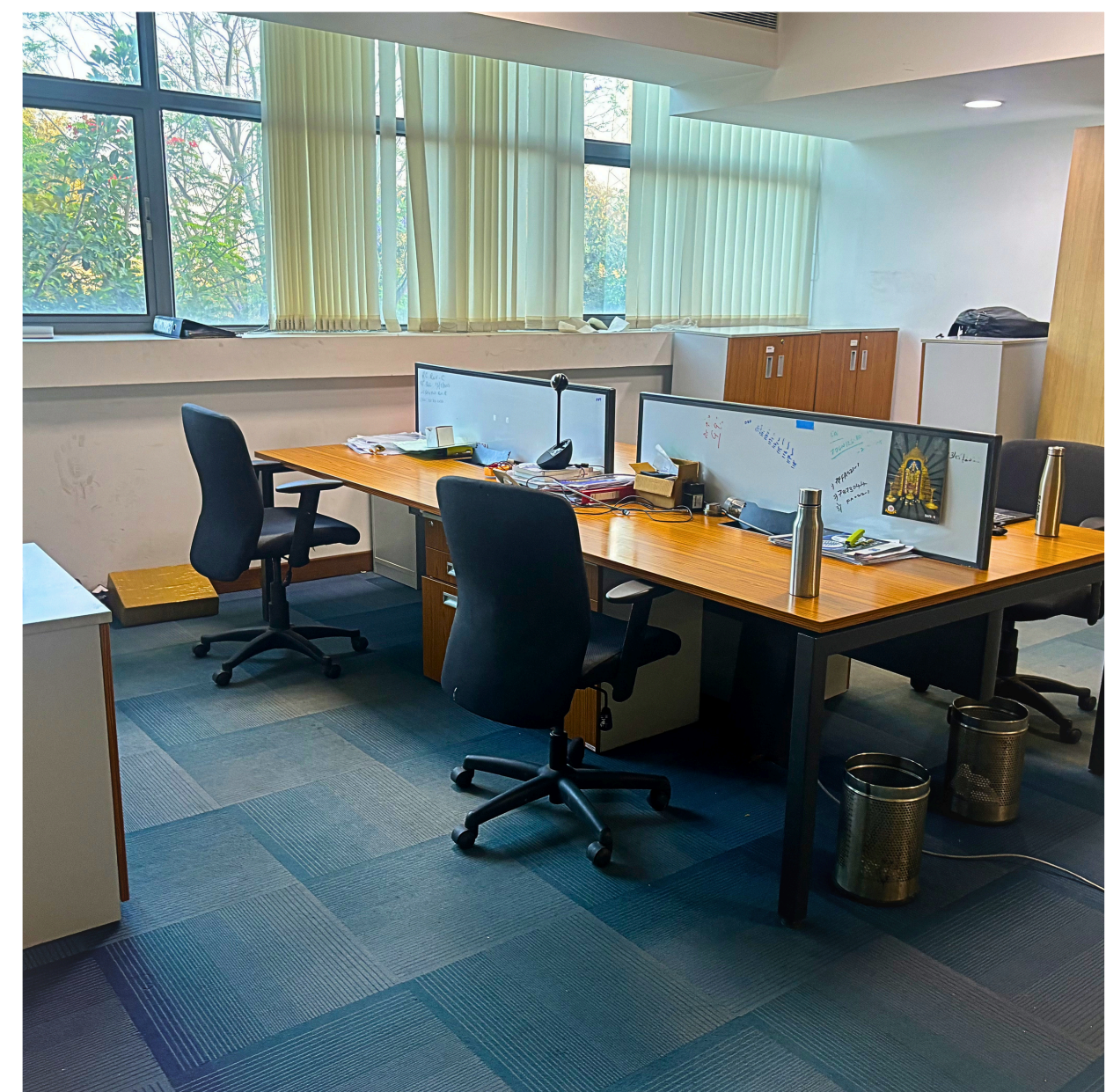
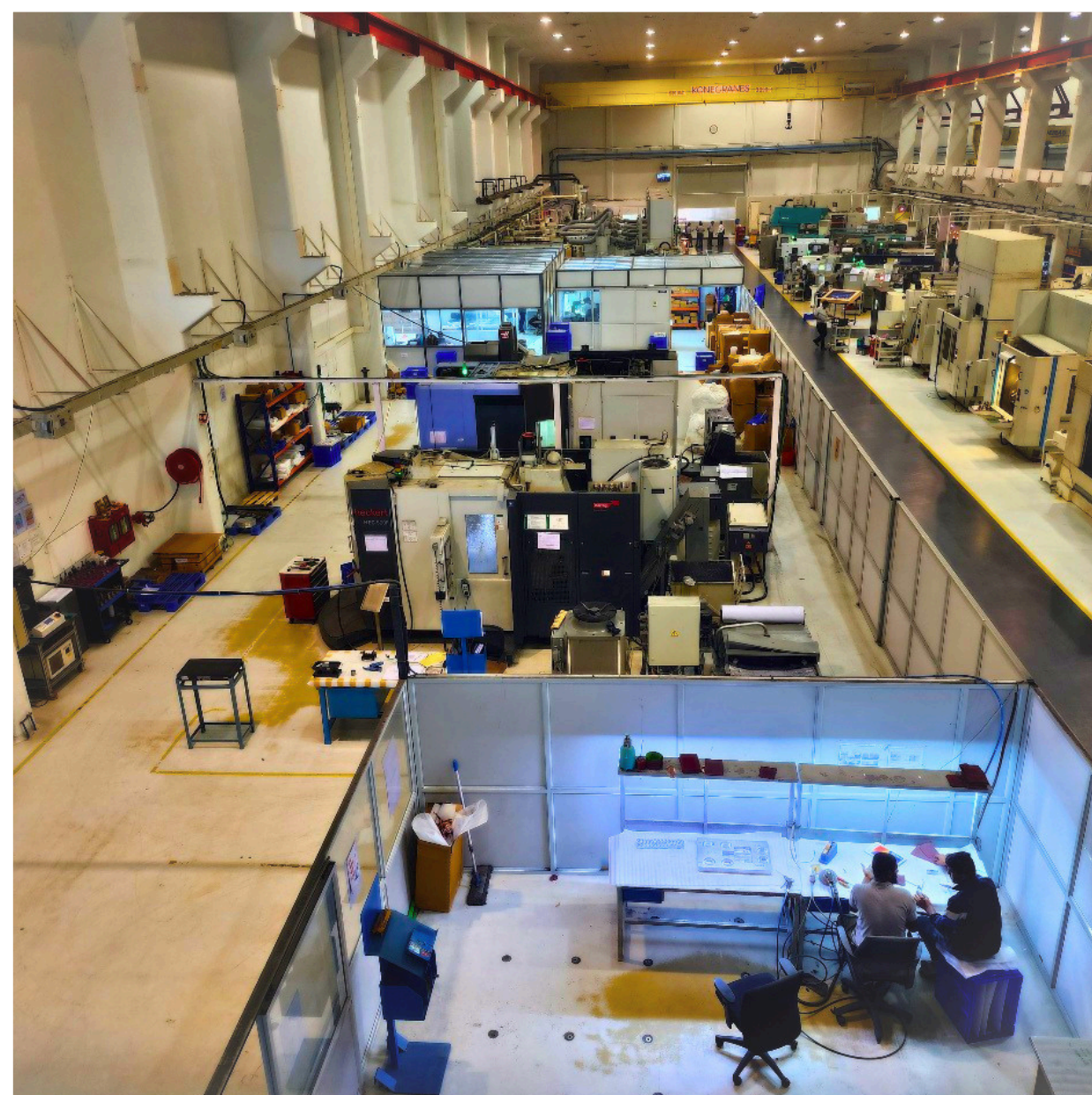
Hands on Global Management team in place with Supply Chain 20 yrs and Engineering experience



Galaxy Z Fold6

LCCSGI Network: Advanced Manufacturing Hub

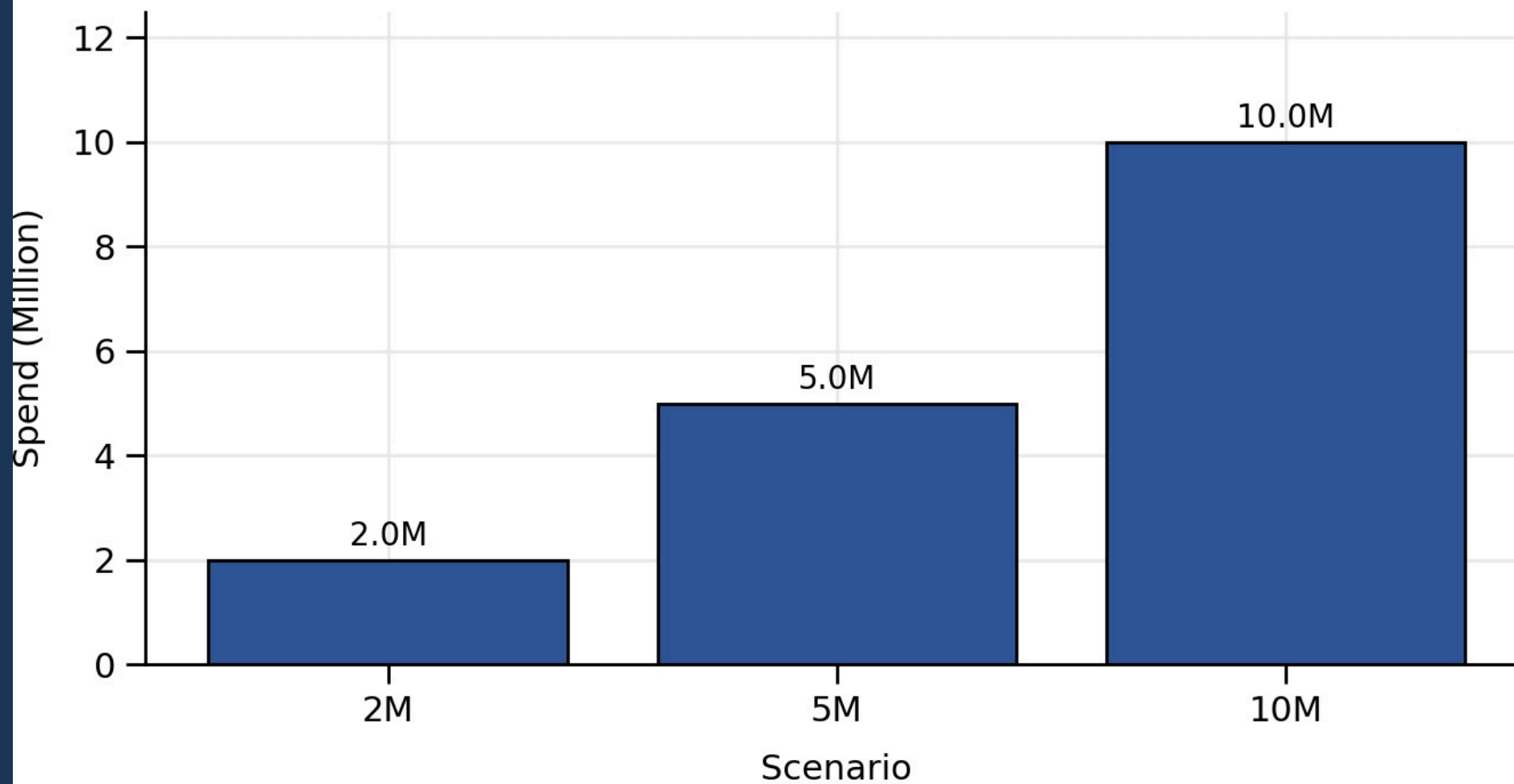
Orluck Bengaluru facility is an example that represents a strategic pillar of the Lccsgi/ Orluck Network.. offers to world-class infrastructure at low cost and excellent communications that It specialized in global value Global Supply Chain, Engineering Services and and Manufacturing assembly



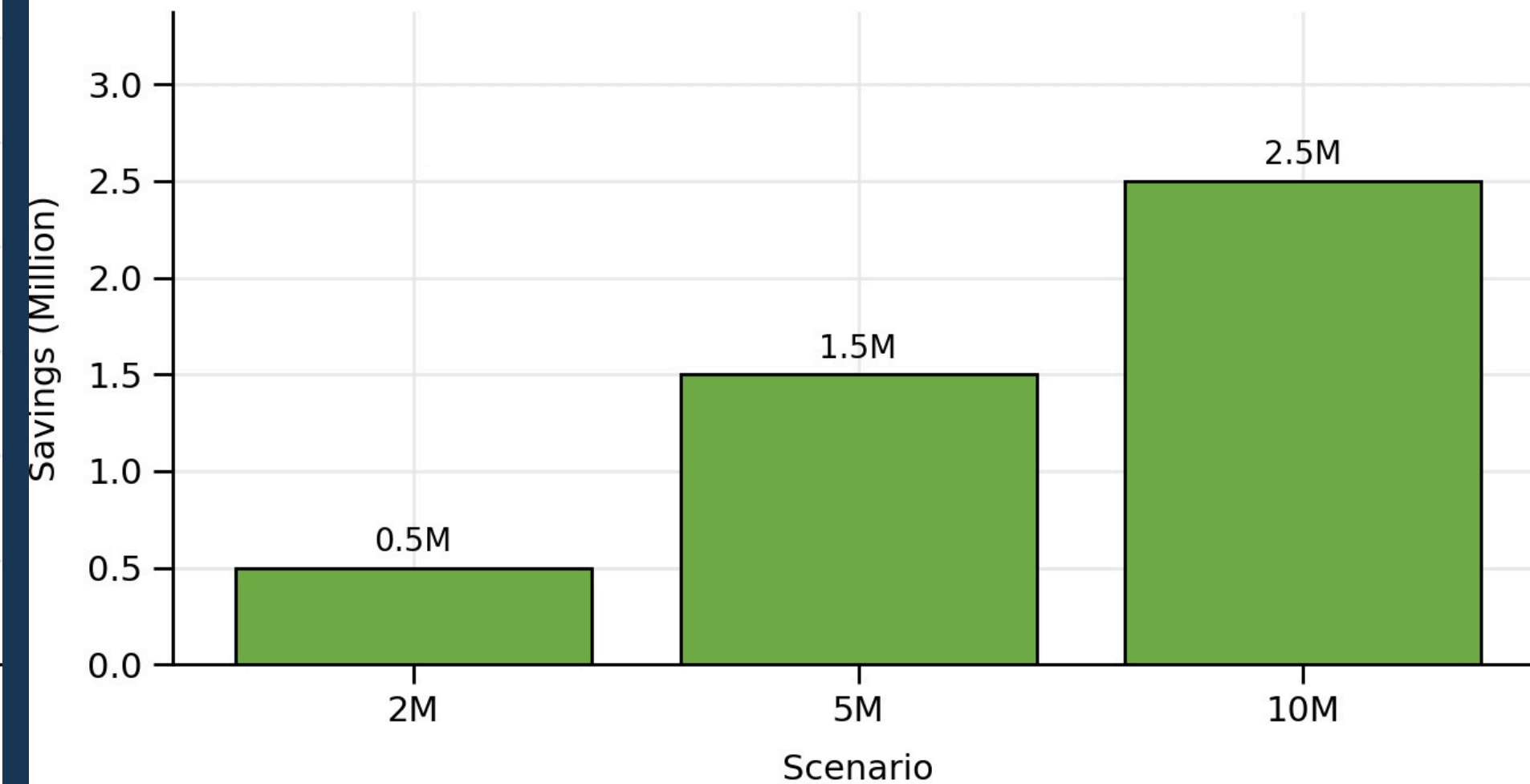
Strategic Cost Savings & ROI

LCCSGI leverages the significant cost advantages of the Indian manufacturing landscape to deliver substantial ROI for our partners. By transitioning production to our Bengaluru center, clients can achieve a 25-30% reduction in total operational costs. These savings are driven by optimized labor rates, reduced overheads, and competitive material sourcing, allowing for a projected saving of up to \$2.5 Million on a \$10 Million manufacturing spend without compromising on precision or quality

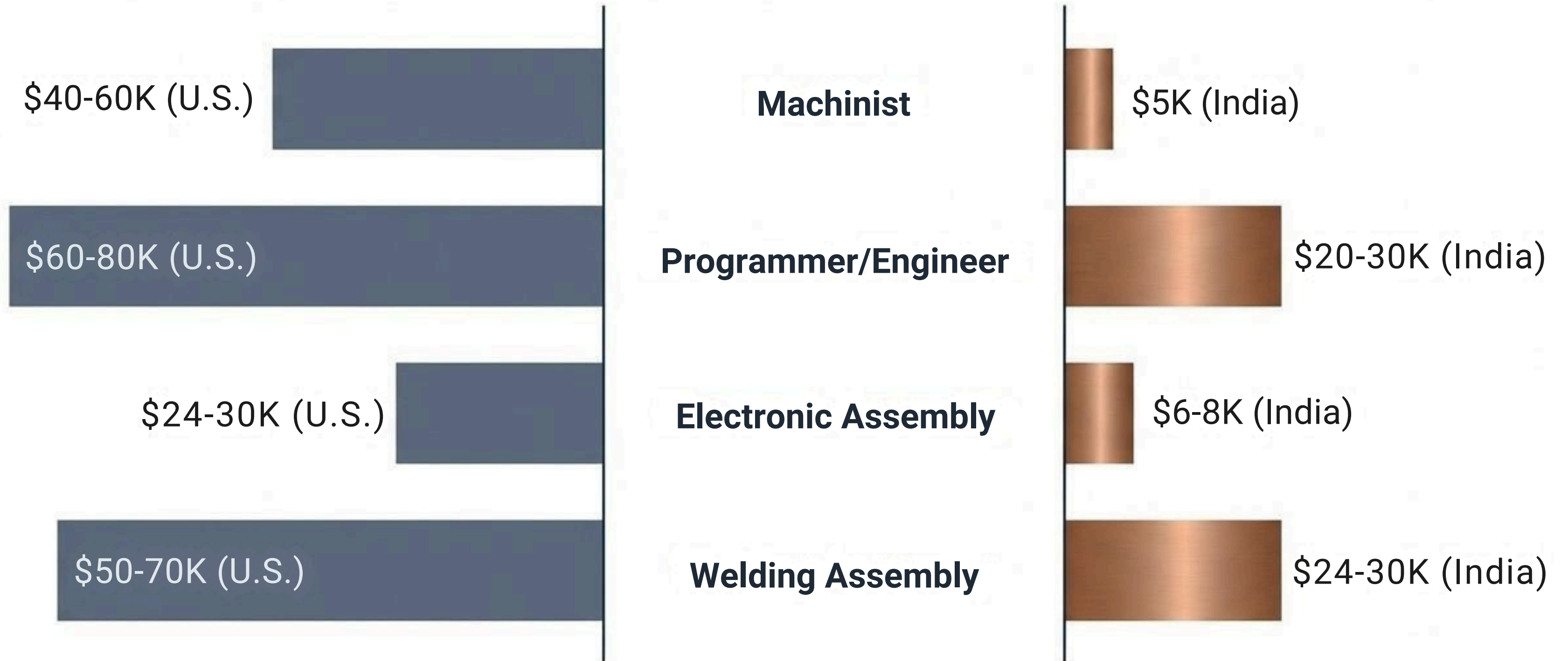
Spend (in Millions)



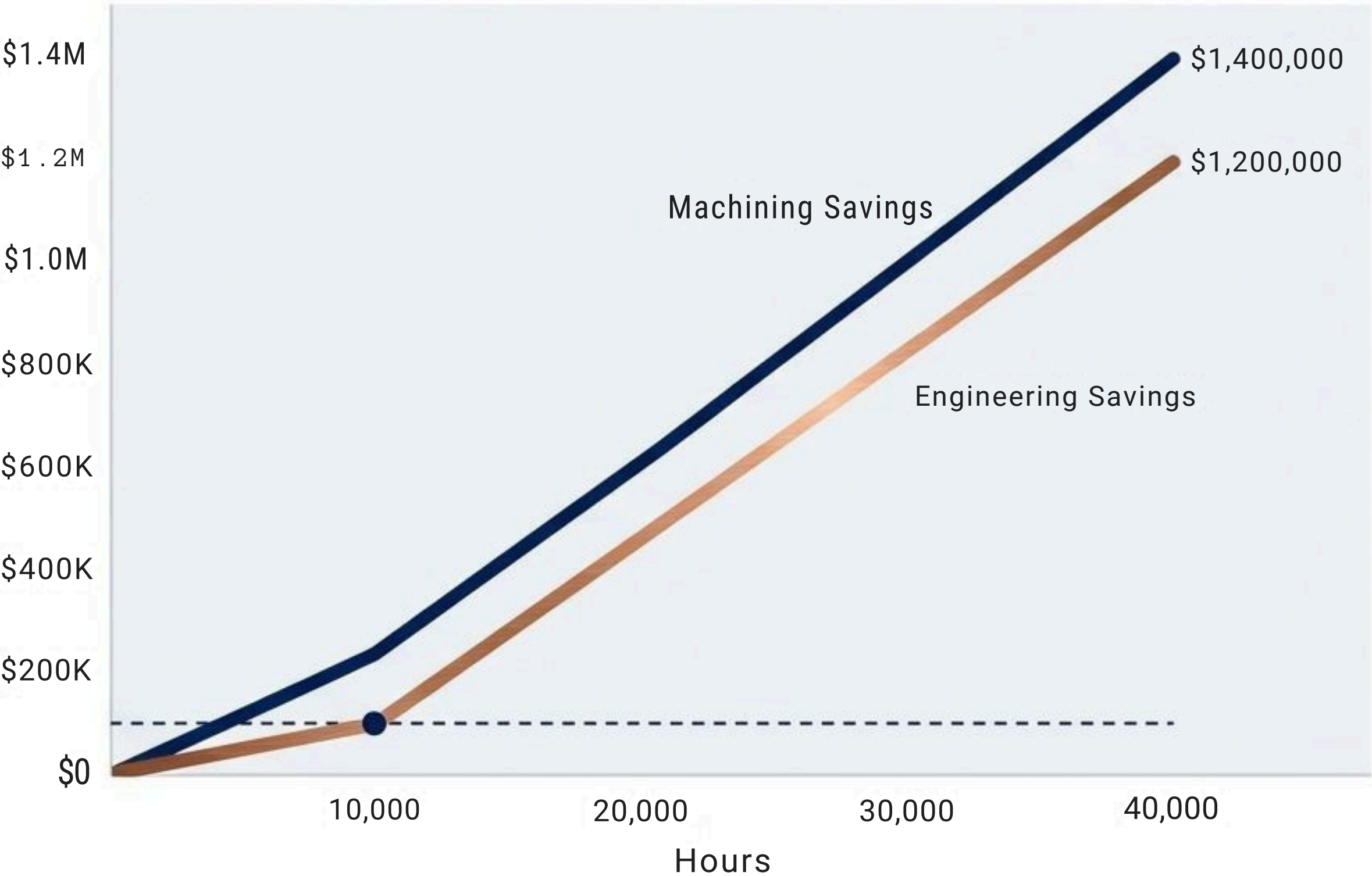
Savings (in Millions)



Gain an undeniable advantage in direct labor costs



Retain over \$1 million in capital through strategic volume sourcing



Scalable Impact: Save \$100,000 for a baseline 10,000-hour contract.

Maximum Returns: Engineering savings scale to \$1.2M, and machining savings scale to \$1.4M at 40,000 hours.

Contract Parameters: Minimum 5,000+ hours; Retainer Contract Only.

Performance Guarantee: Guaranteed 20-25%+ returns on minimum \$500K-1MM package RFQs.

Four specialised pillars driving your global supply chain



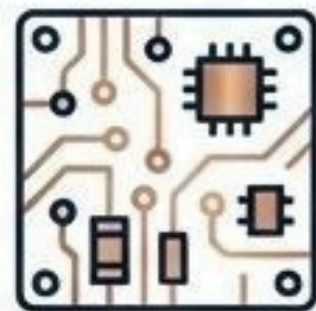
Machining

Complex 3, 4, and 5-axis precision machining.



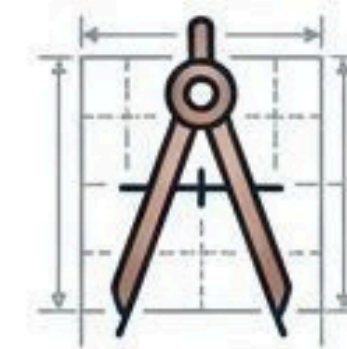
Manufacturing

Comprehensive assembly contract manufacturing and custom fabrication.



Electronics Assembly

High-quality electrical/cable assemblies and precision PCB design.



Engineering Services

End-to-end design, analysis, and reverse engineering.

Unlocking continuous innovation with a dedicated engineering force

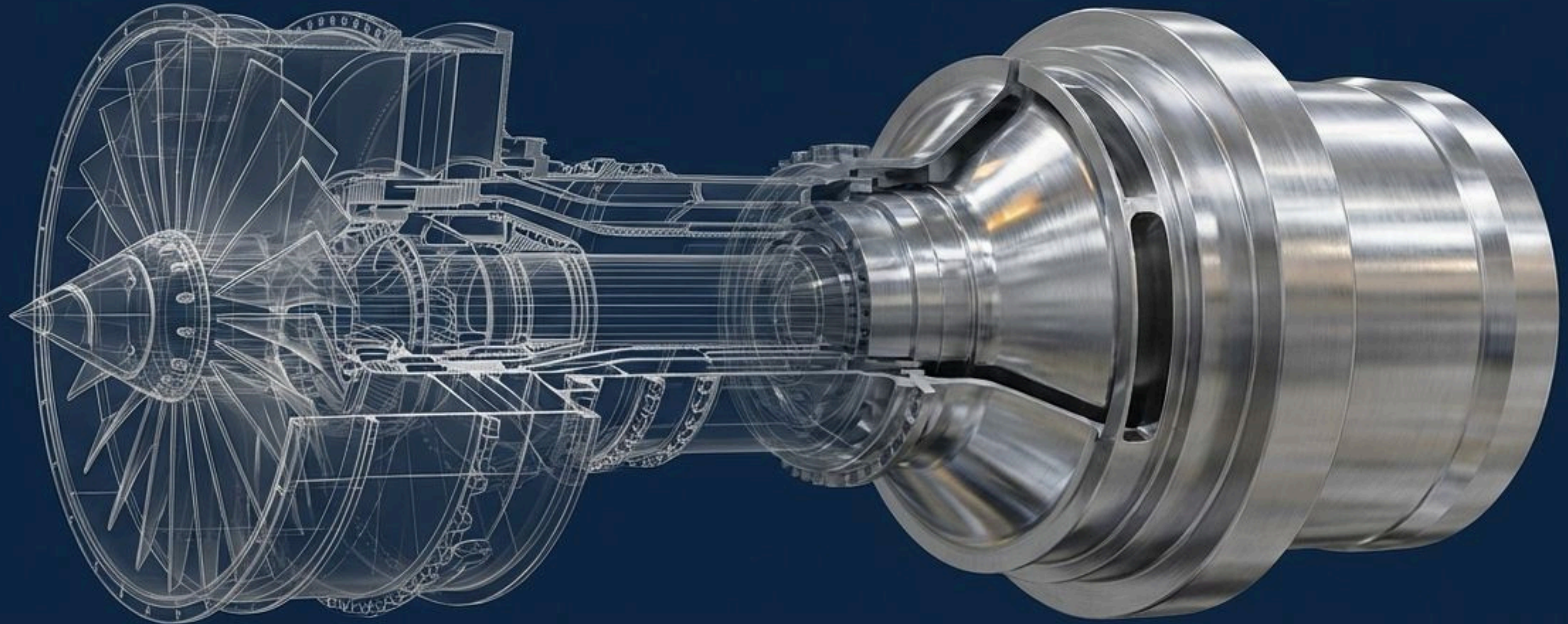
Elite Talent: English-speaking professionals with 7+ years of experience in mechanical/electrical engineering for the medical and aerospace sectors.

Advanced Capabilities:

- Reverse Engineering: 3D scanning to point cloud data, recreating parametric CAD models, and creating detailed drawings.
- Design & Validation: CAD/CAM drawing verification, 3D modelling and conversions (from 2D), and comprehensive CAE validation services.
- Tooling & Support: Value engineering, detailed mechanical analysis, jigs and fixtures, and inspection fixture/gauge design.

Precision & Profitability

The LCCSGI Ecosystem: Bridging U.S. Manufacturing
with India's Scalable Infrastructure



The Global Mandate for U.S. Manufacturers

Scaling operations overseas is no longer a luxury; it is a structural requirement for sustained profitability. Global Low-Cost Country Sourcing Group (LCCSGI) provides the definitive blueprint, transforming traditional offshore risk into guaranteed capital efficiency, resilient supply chains, and 24/7 production momentum.



The Profitability/ Savings / Cash Flow Engine

U.S. Overhead vs. LCCSGI Offshore Advantages

Engineering & Machining Role	U.S. Yearly Salary Average	India (Bangalore) Yearly Equivalent	LCCSGI Guaranteed Returns
Machinist	\$40-60K (US)	\$5K (India)	20-25%+ ROI
Programmer/Engineer	\$60-80K (US)	\$20-30K (India)	20-25%+ ROI
Electronic Assembly	\$24-30K (US)	\$6-8K (India)	20-25%+ ROI
Welding Assembly	\$50-70K (US)	\$24-30K (India)	20-25%+ ROI

Expanding overhead capacity by up to 10x without sacrificing localized U.S. quality management.

Cash Flow Velocity & Guaranteed ROI

The Baseline Commitment: Minimum \$500K - \$1MM package RFQ.

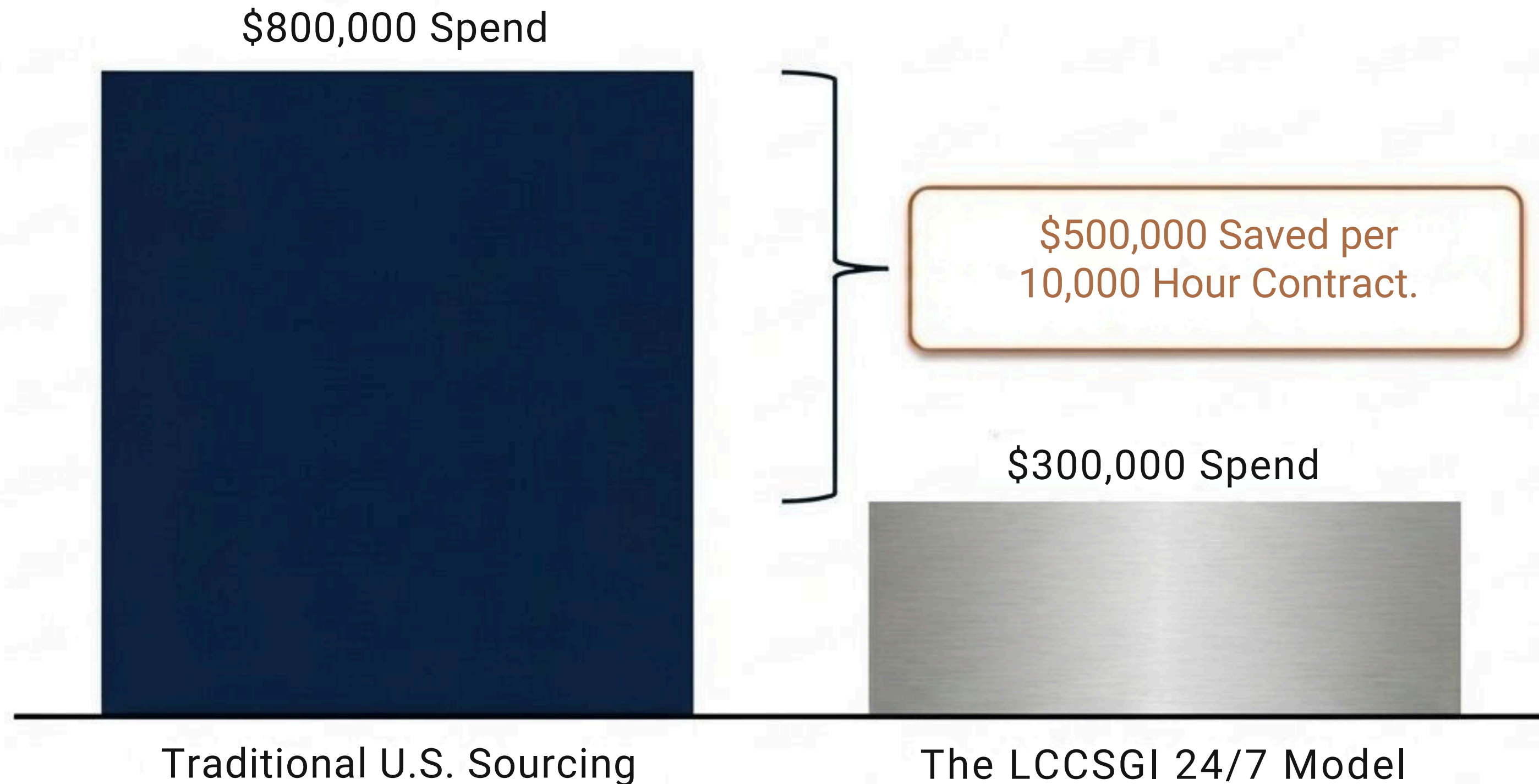
The LCCSGI Guarantee: 20% to 25%+ absolute minimum returns on scaled operations.

Cost Savings Baseline: 30% to 50% cost savings across machining, fabrication, and assembly.



The 10,000-Hour Benchmark

Achieved through continuous 24/7 operations, utilizing an 18-month contract model for key personnel, accelerating time-to-market while slashing capital requirements.



The Orluck Challenge: Scaling Aerospace Precision

The Client:

Peter Orluck, CEO of Orluck Industries (Elk River, Minnesota, USA).

The Profile:

A leading U.S.-based manufacturer of high-precision machined products serving top-tier global aerospace companies.

The Strategic Mandate:

- Establish a manufacturing presence in India.
- Develop a local supply chain for in-country sourcing.
- Maintain strict NADCAP-certified special process standards.

The Blueprint to Bangalore

1. Operational Setup

Identified Bangalore as the optimal aerospace hub. Executed the groundwork for immediate plant setup and local talent acquisition.

2. Facility Commissioning

Developed a state-of-the-art 10,000 sq. ft. machining facility. Connected Orluck with local technology partners and integrated global quality standards (PDI, CAPA).

3. Multimillion-Dollar Joint Venture

Leveraged LCCSGI's elite network to structure JV investments and secure financing, accelerating the expansion timeline.

Ground Truth: The Bangalore Footprint

Anchored in India's premier aerospace and tech corridor. A dedicated on-ground ecosystem providing immediate access to a world-class talent pool for engineering, hardware, and supply chain management.

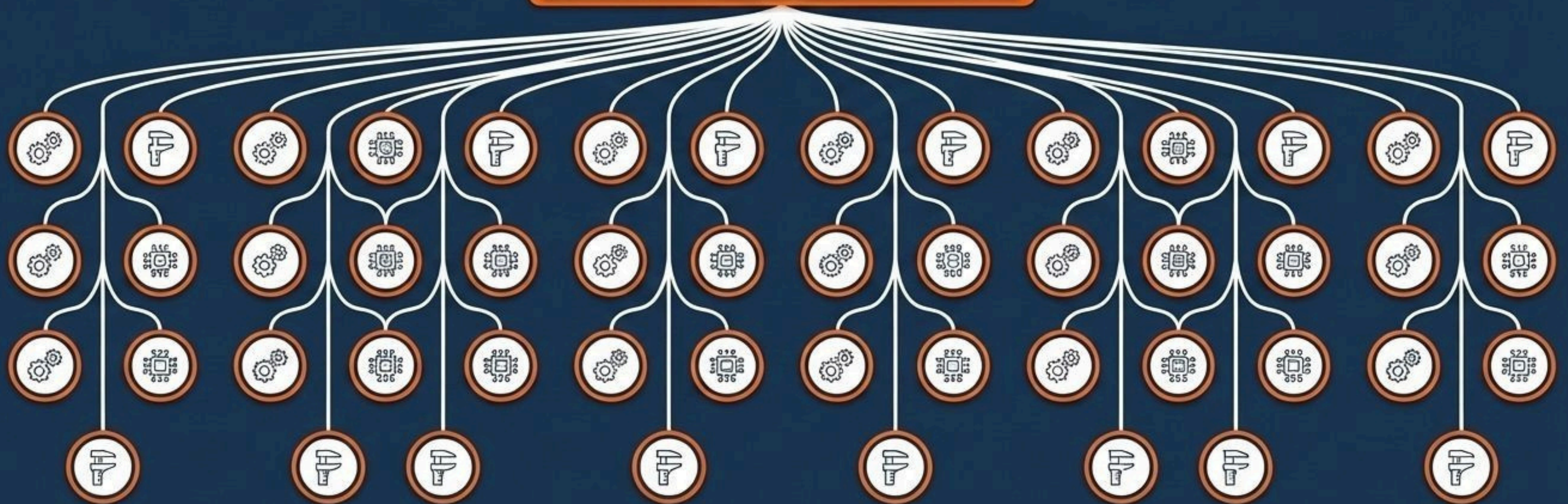


On-Ground Execution & Engineering Support

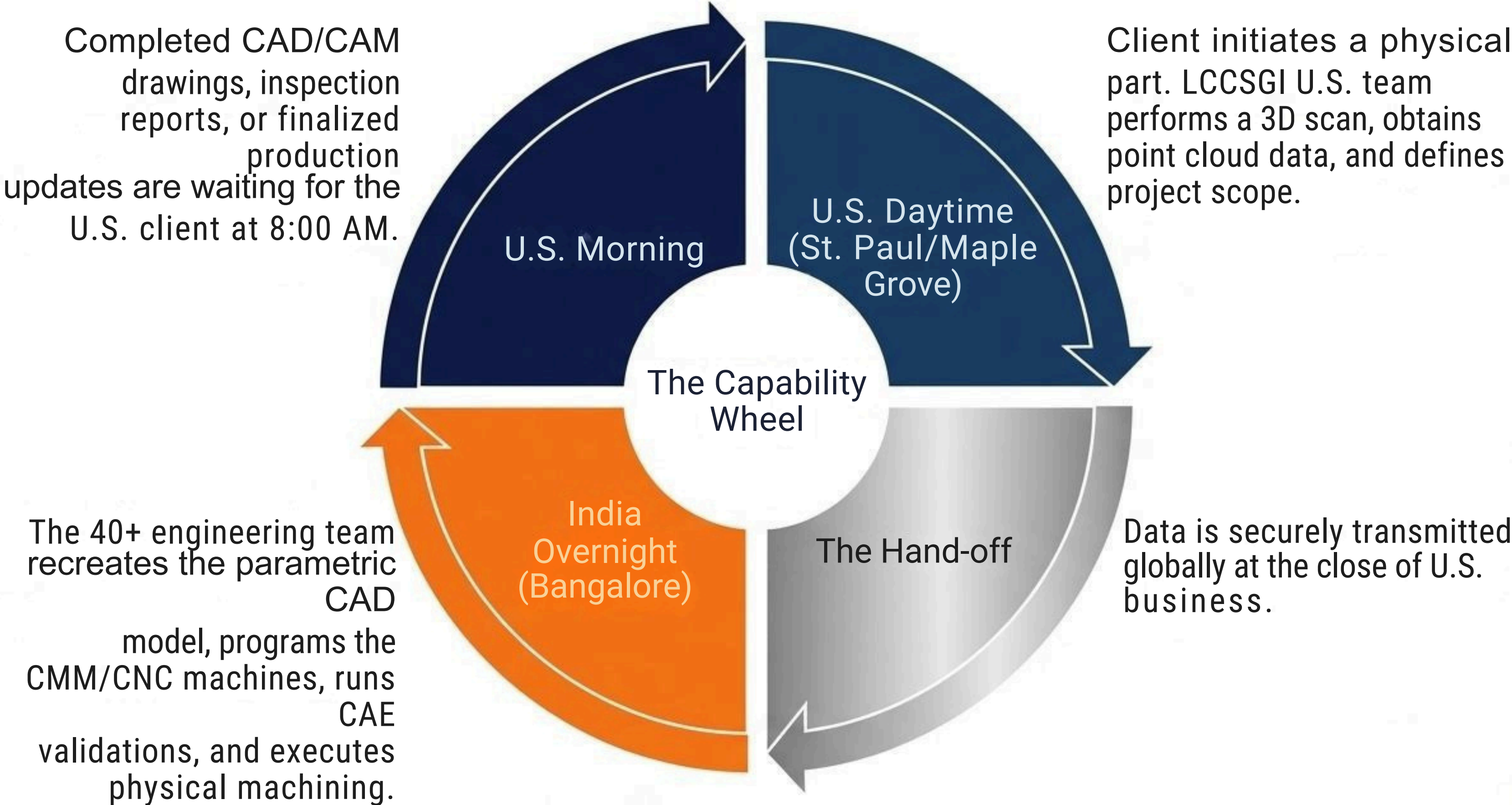
Managing a dedicated team of highly skilled, English-speaking professionals with over 7 years of experience in mechanical and engineering for the aerospace and medical industry.

India Operations Manager
(Bangalore)

Overseeing the 10,000 sq. ft. precision machine shop, supplier development, and rigorous daily quality control.



The 24/7 Hemisphere Hand-off



Your Pathway to 20%+ Margins

Supply Chain Audit

Identify precision machining, fabrication, or assembly bottlenecks.

Retainer Engagement

Secure an LCCSGI yearly retainer contract (saving up to 30% over traditional ad-hoc professional services).

Joint Venture Exploration

Begin structuring a dedicated India facility modeled on the Orluck success.

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Phone: 612 636 1608

Website: www.lccsgi.com

Minnesota HQ: 464 Lake Wabasso Court, St. Paul, MN 55126

Your dedicated local supply chain extension in India

Logistics & Export Management:

Complete streamlining of freight coordination, customs documentation, shipment tracking, and strict compliance with U.S. import standards.



Supplier Identification & Vendor Development:

Identifying top-tier suppliers for precision machining, sheet metal, castings, plastics, and electronics. Building long-term supply partnerships with competitive pricing.

Real-Time Production Monitoring:

Daily coordination with Indian vendors to ensure prompt communication, issue resolution, and on-time delivery.

Rigorous quality oversight protecting your brand reputation

LCCSGI's Bengaluru team enforces U.S. standards locally, providing consistent visibility into production status.



Supplier Qualification: Comprehensive on-site vendor audits and capability assessments before onboarding.



Active Monitoring: Pre-production assessments and in-process quality monitoring.



Final Verification: Strict Pre-Dispatch Inspections (PDI) and Corrective & Preventive Action (CAPA) follow-ups to guarantee quality at every stage.



Strategic partnerships designed for exponential scale



Moving beyond transactional sourcing to build long-term, scalable infrastructure.

- Turnkey Operations: Complete setup and management of dedicated manufacturing operations.
- Joint Ventures: Facilitating Joint Venture opportunities between U.S. and Indian companies for shared risk and maximized upside.
- Leadership Stability: 18-month contracts for key personnel from LCCSGI to oversee implementations and ensure operational continuity.

Global expansion and cost optimisation at Orluck Industries

Client Profile: Peter Orluck, CEO of Orluck Industries (Elk River, Minnesota) - a leading manufacturer of high-precision machined products for top global aerospace companies, utilizing NADCAP-certified special processes.

The Strategic Challenge: Leadership sought to establish a manufacturing presence in India, build a local supply chain for in-country sourcing, and access a competitive talent pool for engineering and supply chain roles.

The Obstacle: Achieving this required deep local industry knowledge, high-value network connections, and on-ground execution capabilities.

Engineering a customized roadmap for aerospace manufacturing

LCCSGI leveraged strong affiliations across Bangalore-India's hub for aerospace and machining-to execute a three-phase strategy:

1. Operational Setup

Identified Bangalore as the strategic location, developed the setup roadmap, and executed the operational groundwork.

2. State-of-the-Art Facility

Connected Orluck with technology partners and process experts to build a high-precision plant integrated with global quality standards.

3. Multimillion-Dollar Joint Venture

Leveraged local networks to build JV partnerships, structuring investments and financing to accelerate the expansion.

Launching the first Minnesota aerospace machining plant in India



The Milestone

Successfully established a 10,000 sq. ft. machine shop equipped with high-precision CNC and advanced inspection capabilities.

The Result

Orluck Industries realized 30% to 50% cost savings across machining, fabrication, and assembly while significantly reducing lead times through local sourcing.

The Talent Advantage

Gained immediate access to India's deep engineering and technical talent pool to support long-term global growth.



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Program Manager

Kaustubh Sharma
Aerospace Consultant - Systems/Program
Management