



ENGINEERING THE CHANGE

www.LTTS.com

OUR VISION

Engineering a sustainable tomorrow through technology and innovation

L&T TECHNOLOGY SERVICES

With innovation at our core, we challenge the status quo and continuously leverage technology for scaling the future and inspiring new possibilities for our customers.

As we constantly strive for multi-dimensional growth, we hold ourselves accountable for creating a sustainable world and delivering positive outcomes that transcend business boundaries.

With the ability to engineer change, and with the effective use of technology, we are committed to achieving environmental stewardship, social development, and economic progress for all our stakeholders.

OUR MISSION

Be the **engineering partner of choice** by enabling innovation with world-class technologies, processes, and people – delivering inclusive growth for all stakeholders

At LTTS, we are passionate about creating a better and sustainable world for the future of our customers, people, and communities.

As a technology-led engineering company, we encourage a culture of collaboration and learning. Our innovation DNA and a 'can-do attitude' enable us to engineer the change.

With our people as the driving force, integrity, and fairness as our bedrock, we are committed to constantly innovating to strive for the best solution and customer experience. It is this unyielding passion and unfaltering commitment to excellence that ensures inclusive and sustainable growth.

OUR VALUES

At LTTS, everyone is an Engineer at Heart

Passion For Engineering

Curious About Everything

Fearlessly Creative

Collaborative

Frugal Mindset

- Being Purposeful Ethics & Integrity Caring
- A Culture of Learning
- Results with Accountability

L&T TECHNOLOGY SERVICES

LTTS IN A SNAPSHOT

L&T Technology Services is a leading global pure play ER&D services company





Patents



105 R&D Innovation Labs



TOP 25

Globally

25+

Countries

*Data as of December 31, 2023.

Best Employers







57 Of Global 100 R&D

22 Global

Spenders as clients

Centers





L&T TECHNOLOGY SERVICES



Technology Partner For Sustainable Tomorrow



L&T TECHNOLOGY SERVICES

OUR DIFFERENTIATORS



INFRASTRUCTURE

105 Innovation Labs for product design, engineering, tear-down, compliance, power electronics & digital

CROSS-POLLINNOVATION

Our multi-domain & multi-vertical expertise enables us to take best practices from adjacent industries and adapt them to your business



SOLUTIONS & ACCELERATORS

Ready-to-use solutions & accelerators for product design, analytics, cybersecurity, AI, test automation, and smart workplaces



DIGITAL ENGINEERING

NexGen Comms Analytics/ Al/ ML Cloud Engineering DevOps lloT Security UX



L&T TECHNOLOGY SERVICES

ACROSS MULTIPLE INDUSTRIES

8 of top 10



7 of top 10

Plant Engineering

💿 🗧 岩 of top 10



Hi-Tech and Telecom



Medical & Lifesciences

7 of top 10

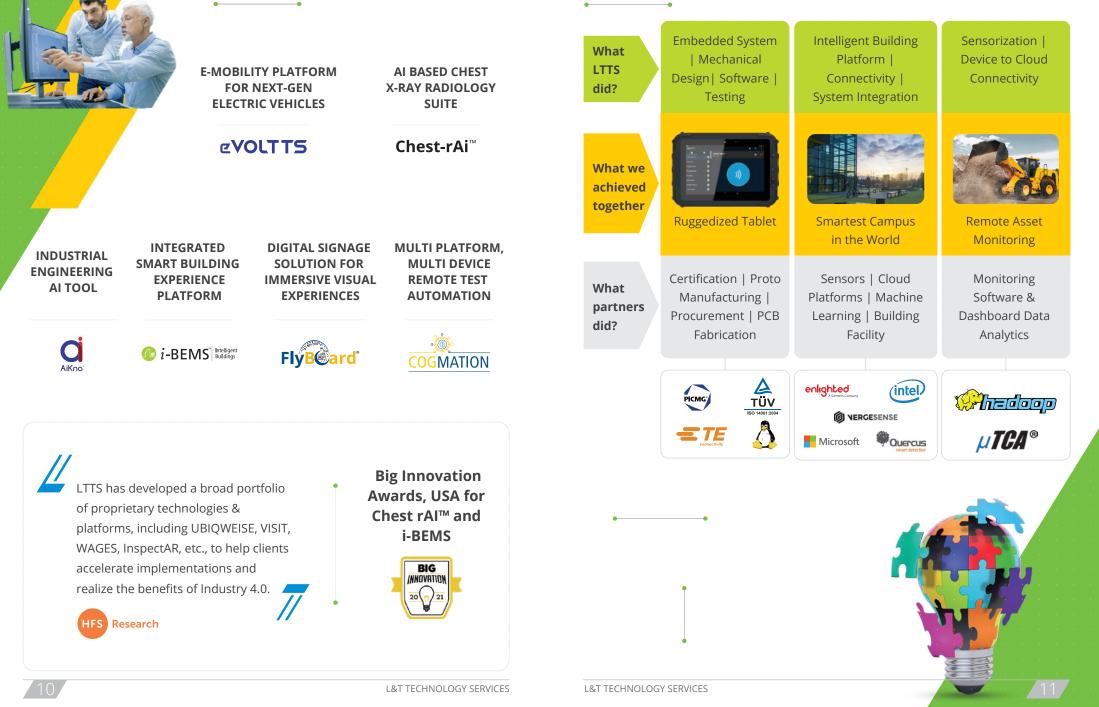
Industrial Products

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OUR PROVEN PLATFORMS & SOLUTIONS

COMBINED WITH OUR ABILITY TO COLLABORATE



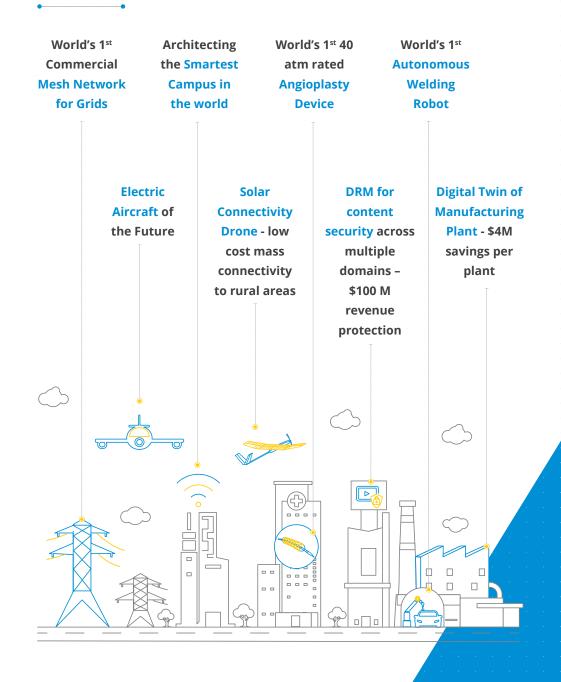
NEXT-GEN PARTNERSHIPS FOR NEXT-GEN SOLUTIONS

	Rockwell Automation
Ansys	Aaras
AVEVA	SIEMENS
@aspentech	aws

L&T TECHNOLOGY SERVICES

R&D PARTNERSHIP	PRODUCTS PARTNERSHIP	CERTIFICATION & STANDARDS	TECHNOLOGY & SOLUTIONS
BROADCOM.	DASSAULT	AUT @SAR	ThingWorx
Norme with the second s	💦 vmware	ETSI	SRT TELE2
📚 ptc [.]	🔿 amazon alexa		ORACLE
	TEXAS INSTRUMENTS Design Network	Thing Worx	••••••••••••••••••••••••••••••••••••••
	NRXAssetHub.		CISCO. TEXAS INSTRUMENTS Design Network
	INTERGRAPH	€dlna	splunk>
	Microsoft	ORACLE	(intel)
	freescale arricorductor	SRT	skywise.
			Bentley

HELPS US ENGINEER PARADIGM SHIFTS



WE CATER TO THE ENGINEERING NEEDS OF THE ENTIRE SPECTRUM

- Vendor Developed IP
- Minimalistic Development Cycle
- Guarded Development

DISRUPTIVE

ADAPTIVE TECHNOLOGY

CONVENTIONAL

TECHNOLOGY

• Reduce time for development

Complete Program Ownership

• Sustain & Maintain

AND BRING THE BEST OF A START-UP & LARGE ORGANIZATION

LONGEVITY

Decade Long Engineering Engagements

- 10 Year Engagements with 32 of the Global Top 100 ER&D Spenders
- Engineered 100 Patents & delivered >\$100M cost savings
- 42% of our revenue comes from 10+ year engagements
- 60% of our Top 25 largest customers have been with us for 10+ years
- Long term engagements across all industries



R&D LABS AS A SERVICE



EMI/EMC LAB



RADIO FREQUENCY LAB



OPTICS LAB



THINK STUDIO







POWER EQUIPMENT TEST FACILITY



ACOUSTICS LAB



ENVIRONMENTAL TESTING



DRY LAB



MATERIAL TESTING CENTER



TEAR DOWN LAB



HARDWARE & TEST EQUIPMENT ENGINEERING



WET LAB



MICROSCOPY LAB









IOT INNOVATION HUB



AR/VR INNOVATION HUB

5G LAB



ELECTRIC VEHICLE (EV) LAB



TRANSPORT INSTRUMENT CLUSTER







INTEGRATED VIDEO PROCESSING LAB



MACHINE VISION & IMAGING











DIGITAL PLM

DESIGN CENTER

HOW THE INDUSTRY RECOGNIZES US



Recognized as a Great Place to Work® in India for the second time in a row and also certified in Poland for the first time ever



LTTS won the **best-in-class ER&D organization** in the 3rd Edition of NASSCOM Spotlight Awards

AND HOW WE GIVE BACK



EDUCATION & SKILL DEVELOPMENT



WATER CONSERVATION



13th Aegis Graham Bell Award for Innovation in EV Charging Infrastructure



TOP 25 **Innovative Companies** In India



Recognized with ASSOCHAM CSR & Sustainability Excellence Award 2022 in the **Healthcare category**



Recognized By BW Recycling For **Recycling Plastic Waste** To Create Useful Products



Big Innovation Award For Innovation in IoT for Edge Management Framework (EDGYneer)



LTTS wins Golden Peacock Corporate Social Responsibility Award

L&T TECHNOLOGY SERVICES



HEALTHCARE FOR THE NEEDY



ENVIRONMENTAL RESTORATION

Food & Health			
United Way			



10k Charity Run

TeachFirst

L&T TECHNOLOGY SERVICES



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WHAT ANALYTS SAY

Rated as **expansive & established leaders** by all engineering rating studies

ER&D Services

ER&D Services Rating 2021 **Digital Engineering Services Rating 2021** Al Engineering Ratings 2021 Aerospace ER&D Ratings 2021 ER&D Services-US Ratings 2021 ER&D Services-Germany Ratings 2021 Automotive Ratings 2021 ADAS Ratings 2021 **Telematics Ratings 2021** Medical Devices Ratings 2021 **Telehealth Ratings 2021** Semiconductor ER&D Ratings 2021 **Telecommunication ER&D Ratings 2021** OTT Ratings 2021 **Industrial Rating 2021 Digital Thread Ratings 2021 IoT Services** IoT Services Ratings 2021 **Public Infrastructure Ratings 2021 Telehealth Ratings 2021 Digital Thread Ratings 2021**



zinnov

Digital Manufacturing Servcies Overall Next-Gen Services Capability

Monitoring and Security Capability

L&T TECHNOLOGY SERVICES



Life Science Digital Services

MedTech Digital Transformation Services - Europe MedTech Digital Transformation Services - US **Manufacturing industry Services** Digital Engineering – Transportation, US Digital Engineering – Hi-Tech, US Digital Engineering – Industrial, US Digital Engineering – Transportation, Europe Digital Engineering – Industrial, Europe **Internet of Things- Services & Solutions** IT/OT Tech Data Convergence IoT Consulting and Services Al on the Edge IoT Endpoint Security IoT Consulting and Services US Managed IoT Services US Connected Mobility Consulting and Services US



ACES

Services

Semiconductor

Semiconductor Engineering Services PEAK Matrix® Assessment 2021

21

A CLOSER LOOK AT OUR INDUSTRY OFFERINGS



SOFTWARE & PLATFORMS

WHO WE SERVE

- Hyperscalers
- Vertical ISVs
- OT Cybersecurity **Solution Providers**
- OT Tool Solution Providers
- Data & Platforms **Solution Providers**

WHAT WE DO









Verify & Validate

Create

Collaborate

SUCCESS STORIES

- Digital Transformation Resulting in 20% Infrastructure Cost Savings
- Engineering Productivity with Remote Asset Monitoring for 30,000 Heavy Industry Assets
- World's 1st Airway Clearance System with Bluetooth Connectivity
- Driving Sustainable Energy Efficiency via LTTS's IIoT Solution

INDUSTRIAL PRODUCTS

WHO WE SERVE

- Industrial Machinery
- Oil & Gas
- Renewable Energy

EMERGENCY

LUMINAIRE

Best of Category

Design Excellence

Awards in LIGHTFAIR®

International 2018

- Power Electronics
- Building Solutions
- Automation
- Test & Measurement
- Special Machine Tools
- Lighting Engineering

AWARD WINNING PRODUCTS



VIBRATION METER

Innovative

Award

Danaher Golden

GRID TIED SOLAR INVERTER

Solar Industry

POWER DRIVE

Award

Plant Engineering Product of the Year Gold Award

SUCCESS STORIES

- World's 1st Motion Activated Screwdriver
- World's 1st Autonomous Welding Robot
- Smartest Campus in the World
- Patented Multi-voltage Booster Technology for Welding Power Source
- Patented Portable Vibration Analyser
- High Power DC-DC Converter
- Grid Tied Solar Inverter
- Machine Vision System with Patented Technology for Leak Detection



L&T TECHNOLOGY SERVICES

L&T TECHNOLOGY SERVICES



GROUND TRANSPORT

AUTOMOTIVE

- Infotainment & **Driver Information Systems**
- Connected Cars
- Body Electronics & Comfort Systems
- ADAS & Autonomous Drive
- Powertrain and Alternate Propulsion Systems
- Body Engineering & Safety Restraints

TRUCK & OFF HIGHWAY

Product Engineering, Manufacturing Engineering & Digital Engineering across all product lines



SUCCESS STORIES

- Android Based Infotainment **Cluster for Automotive OEMs**
- Integrated Radar & Camera Development for Automotive **Tier-1** Supplier
- Remote Tracking & Monitoring for Heavy Construction **Equipment & Mixed Fleet**

- Optimizing Cost of Lifting System of Lawn Tractor Through Redesign
- 3D Modeling & Simulation of Automotive Manufacturing Plant
- Competitive Benchmarking of Tower Crane for the India Market

AEROSPACE & RAIL

AEROSPACE - WHAT WE DO







Test

Equipment

Avionics



Aero

Engines





Train Design & Controls

RAIL - WHAT WE DO

Rail Signaling

Safety & Reliability (RAMS)

SUCCESS STORIES

- Next-gen Aircraft Propulsion System
- Advanced Seatback IFEC System
- Optimization of Horizontal Stabilizer for an **Aerospace Major**
- Model Based Engineering for Aircraft Heater Module
- Parabolic Aluminized Reflector (PAR) Lighting •
- Development of a Safe & Reliable Railway Brake Controller
- Foolproof independent checking & standard setting for a Light Rail Transit System

MEDICAL DEVICES & LIFESCIENCES



	V	νно	WE	SE	RV	Έ	
		Thera	ape	utic			
		Diag	nost	ic			

IVD & Lifesciences

- Musculoskeletal &



Services

Services



SUCCESS STORIES

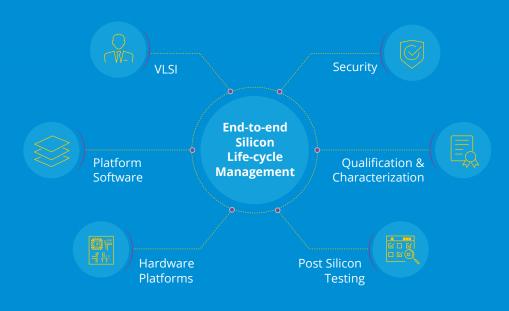
- World's Leading Smart Inhaler
- 3D Printing for Customized Knee
- World's 1st Medical Device to Produce 40 atm Pressure

World's 1st Airway Clearance System

- Integrated Reusable Vessel Sealing & Cutting Device for Emerging Markets
- Automated Blood Cell Counter with Precision of >99% and Consumption of 2% Less Blood

L&T TECHNOLOGY SERVICES





SUCCESS STORIES

• Turnkey System on Chip / ASIC Design: Image Processing Chip for Industrial Camera Applications Laptop/PC AI SoC – Ultra Low Power Companion Chip Mobile Phone Application Chips - SSD Controller Low Power AR/VR SoC for Media & Entertainment Applications

• System Design and Validation:

Data Center Products – Design and Validation **Automotive Infotainment Products Networking Products** IoT Products



CONSUMER ELECTRONICS

WHO WE SERVE

- Personal Devices
- Enterprise Devices
- Accessories and Console
- Wearables
- Consumer IoT &

Retail

WHAT WE DO



Testing And Certification



Connectivity Support

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SUCCESS STORIES

- World's 1st Dual Touch Screen
 Smartphone
- World's 1st Wearable Support Network



Android/Linux Platform Bringup



Peripheral and Sensor Integration



Maintenance an Upgrades

Application UI/ UX &

Customization

- Design and Proto
 Manufacturing of Ruggedized,
 Smart Public Safety Device
- Cloud based Smart Home Automation Experience

L&T TECHNOLOGY SERVICES

TELECOMMUNICATIONS

WHO WE SERVE

Communication ServiceProviders (CSP)



Mobile Network Operators (MNO) Original Equipment Manufacturer (OEM)

WHAT WE DO



Network Orchestration & Virtualization (SDN/NFV) loT Service & Do Platform Enablement

Global Field Testing and Automation



5G - Chip to Cloud Deployment

Telco Cloud

Engineering

5G - Lab as a Service

KEY DIFFERENTIATORS

- End-to-End Product Design & Development
- Private LTE/5G Network in Lab
- 5G Automation Framework
- Acceleration-as-a-Service & Monetization Solutions
- ORAN based Open Sourced 5G Lab
- Test Factory Tools, IP & Frameworks





L&T TECHNOLOGY SERVICES

PLANT ENGINEERING **WHO WE SERVE** • Food, Beverages & Dairy • Oil & Gas Pharmaceuticals • Chemicals • Home & Personal Care • Discrete Manufacturing WHAT WE DO Engineering **Operation &** EPCM & PMC Maintenance Design Asset Management Decommissioning Consulting Support Services Services

SUCCESS STORIES

- Turnkey Wastewater Management services for global F&B major in USA
- Enabled expansion project for global polymer major during pandemic
- EPCM Services for Chemical Major in Europe
- EPCM services for tire plant in India
- Engineering for Edible oil refinery in South Africa
- Engineering plant safety with machine guarding solutions for HPC major in US
- OPEX reduction using ZLD concept enabling 42% recycled water reuse for tire manufacturer
- Engineering for Greenfield projects in India for global F&B major









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