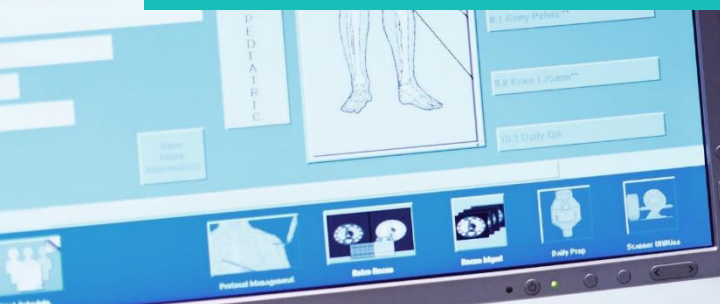


Powering the Future  
of Healthcare ▶

 **CitiusTech**

# Medical Technology

Leveraging a design-driven approach  
and agile methodologies to help deliver  
better and faster patient outcomes



[www.citiustech.com](http://www.citiustech.com)

## Who we are

As a strategic partner to some of the world's largest healthcare and life sciences organizations, we play a deep and meaningful role in accelerating digital innovation, driving sustainable value and helping improve outcomes across the healthcare ecosystem.



CitiusTech is uniquely positioned to address complex MedTech industry challenges, accelerate digital innovation, drive rapid adoption of value-based care models, enhance patient engagement and empower healthcare organizations to deliver better care.

**2,800+**

Engineering & QA  
professionals

**30+**

Healthcare  
technology clients

**400+**

Medical  
imaging experts

**4.5/5**


Client satisfaction  
score

## Transforming & Modernizing MedTech Products

MedTech companies worldwide are shifting their focus from traditional products to connected care and integrated solutions. CitiusTech's engineering team, comprising more than 2,800 professionals, delivers best-in-class technology expertise, 200+ pre-built accelerators, and specialized solutions to address complex industry needs.

Our expertise spans connected health, patient and physician engagement, AI-assisted health, predictive analytics, SaMD/digital therapeutics, and process transformation.

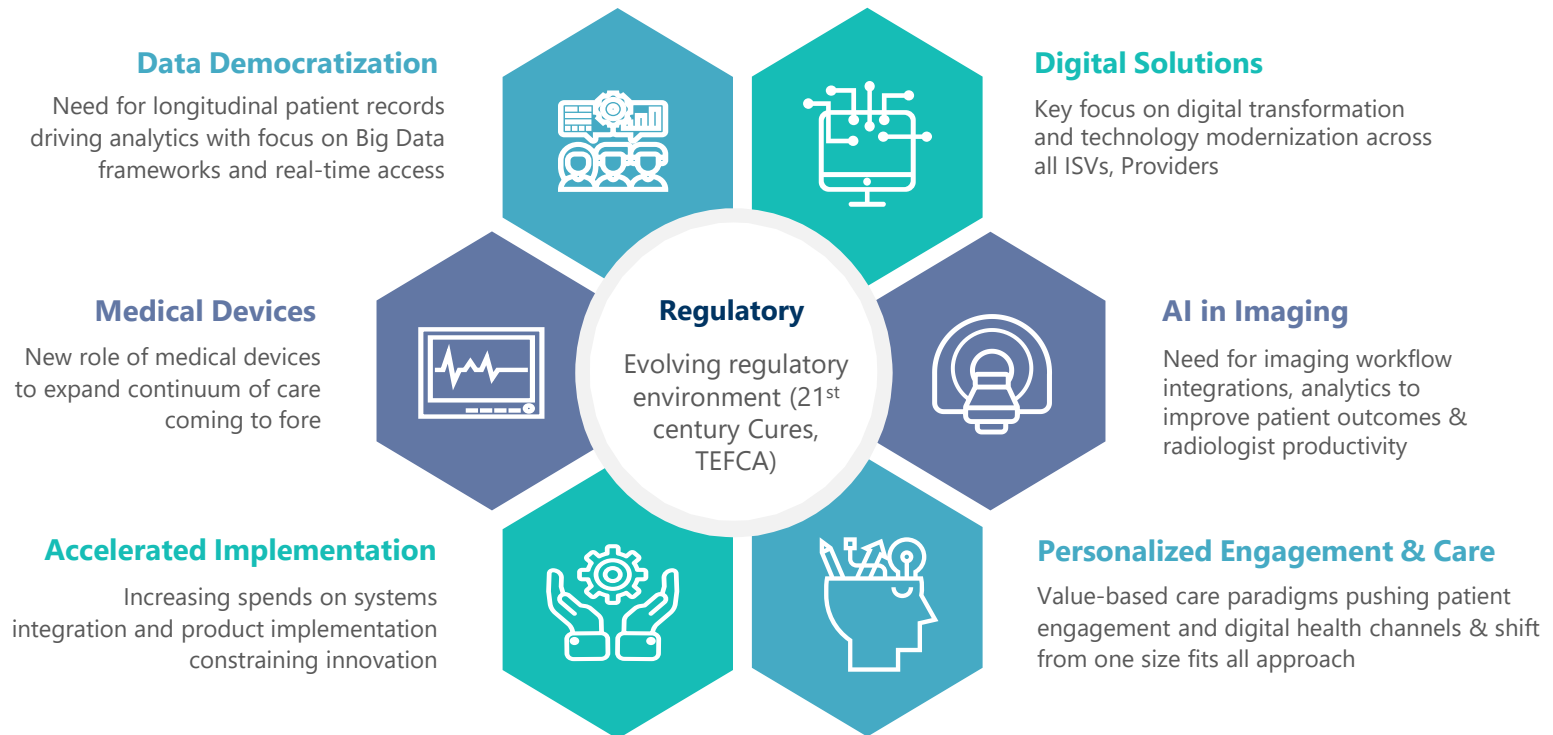
As a trusted customer partner, we leverage proven agile development methodologies, DevOps/DevSecOps practices, and human-centered design approaches to redesign, modernize, and cloud-enable product portfolios. Our focus is on delivering innovative solutions that help our customers stay ahead of the curve and drive better patient outcome



CitiusTech services and solutions are leveraged by **the world's top 15 healthcare IT companies**

# Key MedTech Industry Trends

Multiple digital trends have accelerated due to COVID, an aging healthcare infrastructure and the need to optimize care delivery and consumer experience, while lowering costs and physician burnout



# Why global MedTech leaders choose CitiusTech

With 100% focus on healthcare, we are uniquely positioned to provide design-driven, agile engineering services for MedTech companies



## Best-in-class product engineering

Human-centered approach to designing and developing medtech & digital products



## Pureplay healthcare focus

Deep healthcare expertise - SMEs, innovation labs and clinically inclined UX teams



## Technology partnerships

Rich experience across full-stack and Cloud, with strong partnerships – Microsoft, AWS, GCP, IBM, Red Hat and more



## Utilities & accelerators

Ability to accelerate and scale value within engineering projects using pre-built, proprietary tools, utilities and accelerators



## Quality & regulatory expertise

In-depth understanding of HIPAA, GDPR, CMS, ONC, FDA, ISO and public health domain



## Delivery excellence

16 years of large multi-year deals, for large healthcare clients with industry-leading NPS

**30+**

MedTech clients

**350+**

Interoperability experts

**100+**

Dig. transformation projects

**250+**

Medical device professionals

**100+**

Consulting engagements

**400+**

Medical imaging experts

**250+**

Managed services & support

**400+**

Health Cloud professionals



# Accelerated next-gen offerings

We cater to the digital transformation needs of a diverse set of medical technology companies.

## Industry Solutions



Digital Transformation



Medical Imaging



Medical Devices



Patient / Physician Engagement



Revenue Cycle Mgmt.



Clinical Decision Support

## Core Services



Digital Engineering



Interoperability & Integration



Data Management



Automation, QA & DevOps



Professional Services



Data Science

### Healthcare Consulting

- Cloud readiness & migration
- IT assessment & roadmap
- Product management
- Workflow optimization

### Partnerships & Certifications



ISO 13485:2016







ISO 14971:2019

ISO 9001:2015

## Accelerated next-gen offerings: Industry solutions

With our packaged solutions, we work with the world's largest medical technology organizations to drive their strategic, long term technology initiatives.

### Industry Solutions

 Digital Transformation	 Medical Imaging	 Medical Devices	 Patient / Physician Engagement	 Revenue Cycle Mgmt.	 Clinical Decision Support
<ul style="list-style-type: none"><li>Product engineering</li><li>User Experience (UX), user journeys</li><li>Cloud digital platforms</li><li>DevOps &amp; automation</li></ul>	<ul style="list-style-type: none"><li>RIS/PACS integration &amp; dev</li><li>Patient engagement</li><li>Cloud VNA / PACS</li><li>AI-assisted radiology</li><li>Imaging CoE</li></ul>	<ul style="list-style-type: none"><li>Device Connectivity &amp; Platforms</li><li>SaMD &amp; regulatory journey</li><li>Remote monitoring, consumer engagement</li><li>Supply chain digitization &amp; automation</li></ul>	<ul style="list-style-type: none"><li>Digital health and SaMDs</li><li>Patient services / patient portals</li><li>CDS &amp; Longitudinal Patient Record</li></ul>	<ul style="list-style-type: none"><li>Patient Access Mgmt. solutions</li><li>Operational efficiencies-referral mgmt., RCM golden record etc.</li><li>Revenue Optimization-Denial Analytics, risk adjustments</li></ul>	<ul style="list-style-type: none"><li>Real-time clinical data integration</li><li>SMART on FHIR app for EHR platform</li><li>CDS model development</li><li>Design &amp; develop CDS app</li></ul>



## Accelerated next-gen offerings: Core services

We offer best-in-class digital & product engineering, data, analytics and AI capabilities to help redesign, modernize and Cloud-enable MedTech products.

### Core Services



#### Digital Engineering

- Full-stack, Java, .NET, web dev.
- Cloud Eng. & migration
- Mobile app dev. – hybrid and native
- UX design services



#### Interoperability & Integration

- Interfaces development - HL7, FHIR, DICOM, EDI
- Edge computing gateways
- Error monitoring, interface management



#### Data Management

- Modelling & MDM services
- Enterprise data lake & sandbox development
- EDW managed services & analytics
- Data security & governance



#### Automation, QA & DevOps

- Process discovery & design – Workflow transformation
- BOT development & implementation
- QA Automation & Specialized Testing
- DevOps – CI/CD, Release mgmt., etc.



#### Professional Services

- L1-L4 24/7 app monitoring & support
- Health IT Implementation services
- On-prem & Cloud infrastructure support
- Managed Services models – upgrades, certifications



#### Data Science

- Data Science consulting
- Model development & validation
- Model operationalization / productization
- NLP and Chatbots
- Data Science / AI CoE enablement

# Suite of Accelerators for Clinical & Operational Excellence



## Interoperability

**PERFORM+ Connect:** FHIR-based solution to comply with CMS' interoperable rule and accelerate FHIR adoption

**FHIR Adapters:** Transformation tool for generic conversions between EDI / HL7 to FHIR and vice-versa

**Data quality and monitoring:** Through seamless integration with existing systems, prebuilt KPIs and integrated dashboards



## Data Engineering

**PERFORM+ DataScale:** Aggregate, process and standardize structured & unstructured datasets

**Healthcare Data Models:** For clinical, claims, operations and managed care

**Data Quality Rules Library:** Library of 1,500+ rules

**IoT Device Platform Framework:** Data ingestion, enrichment & processing



## Cloud Engineering

**Microservice Starter Kit:** Rapid development and deployment of microservices

**Azure FHIR Starter Kit:** Quick setup of the FHIR platform – data ingestion & transformation pipeline

**Terraform Iaas Library:** Ready-to-use templates across all major cloud providers

**Auto ML Environment:** Auto spin up machine learning training infra



## Data Science

**CIX:** Extract and standardize clinical information from varied data type

**Smart Data De-identifier:** PHI de-identification, intelligent search, etc.

**MLOps:** Integrate models with existing processes

**Intelligent Adaptive Monitoring:** AI-based remote monitoring technology for patients & devices



## DevOps & RPA

**Core Resource Dashboard:** Monitor key metrics in real time and alerts in case of breaches

**Advance DevOps Framework:** Automation of the entire application deployment life cycle

**SMART RPA Framework:** Enable standardization in RPA development lifecycle

# Accelerating digital innovation, convergence & transformation



## Success Stories

**\$1.3Mn**

*Savings through Cloud adoption for leading health & wellness provider*

**1500+**

*Legacy databases / tech. modernized and consolidated for renal care leader*

**15+**

*EHRs integrated (EPIC, Allscripts, Cerner, GE, etc.) for leading EHR platform service provider*

**~85%**

*Reduction in time spent in healthcare provider workflows for specialized EHR company*

**12k+**

*Device integration with IoT platform for remote monitoring & mgmt. for a Fortune 500 company*

**80-90%**

*Savings in time & effort using Process Automation, for leading RCM company*

# Success Stories: Long-term, High Value Relationships with Leading MedTech & Life Sciences Organizations



## *Leading provider of renal care services*

12+ years  
30+ engagements

- ▶ Working across **legacy modernization, cloud, analytics & AI**
- ▶ **Sustenance (on-prem + Cloud) & CMS regulation** support for EHR & analytics platform
- ▶ **QA CoE**, improving process efficiency by **28%** and lowered testing time by **80%**



## *Leader in medical imaging solutions*

11+ years  
50+ engagements

- ▶ **Long-term strategic supplier** for healthcare technology
- ▶ End-to-end **program management, consulting & tech modernization**
- ▶ **Large-scale engg. engagements** - medical imaging, mobile tech., dose mgmt., patient data analysis using AI/ML



## *Cloud-based healthcare solution provider*

6+ years  
10+ engagements

- ▶ Ongoing **product enhancement & engineering support** partnership
- ▶ Implementation and data management for **EHR products**
- ▶ **Integration of 15+ EHRs & 350+ distinct vendors** with client, with optimized interface maintenance



## *Global manufacturer of medical devices*

3+ years  
5+ engagements

- ▶ Provided **device data mgmt., AI & Predictive analytics, MLOps & Cloud infrastructure** services
- ▶ Developed an **IoT platform on AWS cloud** to enable device connectivity and **remote management of 2500+ microscopy devices**

## About CitiusTech

With 8,000+ healthcare technology professionals worldwide, CitiusTech helps leading healthcare and life sciences organizations reinvent themselves by accelerating digital innovation, leveraging next-gen technologies, and driving data convergence across the healthcare ecosystem.

We provide strategic consulting, digital engineering, data, analytics & AI, specialized platforms and end-to-end solutions to over 130 organizations across the payer, provider, medtech and life sciences industries. Our key focus areas include healthcare interoperability data management, quality performance analytics, value-based care, omni channel member experience, connected health, virtual care delivery, real-world data solutions, clinical development, personalized medicine and population health management.

Our cutting-edge technology expertise, deep healthcare domain expertise and a strong focus on digital transformation enables healthcare and life sciences organizations to deliver better outcomes, accelerate growth, drive efficiencies, and ultimately make a meaningful impact to patients.

**100%**

**healthcare focus**

**130+**

**healthcare clients**

**50M+**

**lives touched**

**4.5/5**

**client satisfaction score**

## Key Contacts



### **Dhaval Shah**

Exec. Vice President  
Healthcare Technology  
CitiusTech

20+ years of experience in healthcare technology, spanning various domains including healthcare interoperability and enterprise application architecture. At CitiusTech, Dhaval heads strategic partnership management for large healthcare organizations.

Prior to CitiusTech, Dhaval worked with leading healthcare organizations and across multiple technology and business-focused roles.

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[dhaval.shah@citius.tech](mailto:dhaval.shah@citius.tech)



### **Shujah Dasgupta**

Vice President  
Healthcare Technology  
CitiusTech

15+ years of experience in developing and designing healthcare products. Leads Interoperability and Imaging practice at CitiusTech.

Shujah has driven multiple digital and product engineering engagements at CitiusTech, including managing large programs, setting up the medical imaging consulting practice, managing strategic customers and driving new business development.

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Powering the future of healthcare ►





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