CAPABILITIES STATEMENT · FEDERAL

IT Modernization & Secure Digital Engineering

Cloud & FedRAMP · Vulnerability Remediation · ISSO & Security Plan Support · Agile Delivery

LEGACY → CLOUD → SECURE → CONTINUOUS

TARGET ROLE: EXPERIENCED SUBCONTRACTOR

Selvam Paramasivan, Vice President | bizdev@bithrive.com | (202) 779-9696 | **www.bithrive.com**

Secure modernization for federal systems: we migrate to FedRAMP clouds, engineer and enhance applications, and keep them assessment-ready.

- ✓ **Since 2011** on NIH's CRSS (NHLBI, NIAMS), now on **FedRAMP GovCloud**
- ✓ **Security built into delivery:** SSP with the ISSO, scanning, remediation
- ✓ **Agile releases governed through CAB**, with near-zero downtime

CAGE 7HPE0
UEI HE9QMSA46DB7
SBA **EDWOSB · WOSB · SDB**
Small under NAICS 541511
GSA MAS offer pending

Similarly situated entity

Since 2011
full technical responsibility for NIH's CRSS

On time
CRSS migration to government cloud on a very tight timeline

<10 ms
real-time replica after splitting reads from writes; batch retired

35%
fewer metadata change requests after CRSS modernization

// CAPABILITIES

- IT modernization & enhancements
- Cloud migration (FedRAMP)
- Vulnerability identification & remediation
- ISSO, security plan & audit support
- Secure digital engineering
- Mobile & web applications
- AI document processing with human review
- Agile delivery, PM & CAB

// WHY BITHRIVE

- ✓ Running an NIH system end to end since 2011
- ✓ FedRAMP GovCloud migration; SSP built with the ISSO
- ✓ Incremental modernization with no big-bang cutovers
- ✓ Similarly situated entity for WOSB set-aside primes (FAR 52.219-14)

// PAST PERFORMANCE

CRSS — NHLBI & NIAMS

Subcontractor since 2011 · NAVITAS (75N92021C00028) 2017–24 · MPF Federal (TO 75N92025F00020) 2024–present

Full technical responsibility: rebuilt from ASP/PHP and moved to FedRAMP GovCloud on a tight timeline, with near-zero downtime.

Real-Time Replication & APIs — Private Equity

Commercial client · subcontractor · in production 10+ years

Read-only replica split from the transactional Investran database, current in under 10 ms; business APIs for a unified UX beside legacy front ends.

REDCap ↔ Clinical Lab Integration

Nonprofit research foundation · with a partner · 2022–2024

A secure, automated integration between REDCap and a clinical genetics lab, serving U.S. and international study sites.

Commercial Clients

Audit, finance and health technology firms

Audit analytics pipelines, secure software, cybersecurity, and workflow automation.

// FOR PRIME TEAMS

- **Similarly situated:** our work doesn't count against your 50% limit on WOSB set-asides
- **Defined work packages** priced for FFP or T&M
- **Proposal-ready now;** on-site from Leesburg, VA

// NAICS

Information Technology
518210 · **541511** · 541512 · 541519 · 541714 · 541715

Professional & Staffing
541611 · 541618 · 541690 · 541990 · 561311 · 561320

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Secure Modernization Lifecycle

From legacy system to authorized, monitored, and continuously improved

Basis of experience. Full technical responsibility for NIH's CRSS (NHLBI, NIAMS) since 2011, as a subcontractor. **We support security assessments and audits; we are not a FedRAMP Third Party Assessment Organization (3PAO).**

Case study: Clinical Research Support System (CRSS) modernization · NHLBI & NIAMS · subcontractor with full technical responsibility · since 2011

CHALLENGE	WHAT WE BUILT	RESULT
A classic ASP and PHP system in a contractor data center, with batch loads, manual server access for study document uploads, and manual user provisioning, had to move to government infrastructure on a very tight timeline.	Architected the environment with NIH CIT; rebuilt in .NET and React with APIs, automated workflows, NIH SSO, and configurable metadata. Built the SSP with the ISSO; run continuous monitoring, scanning, and remediation; release through CAB.	Data migrated on schedule. Now on FedRAMP GovCloud with near-zero downtime within SLA, 35%+ fewer metadata change requests, and built-in leadership reporting.

01 MODERNIZE

IT Modernization & Cloud Migration

- **Incremental modernization:** business APIs and real-time read replicas let new platforms go live while legacy systems keep running, with no big-bang cutover.
- **Cloud migration to FedRAMP-authorized services:** inherited-control mapping, migration runbooks, and cutover with rollback plans.

02 ENGINEER

Secure Digital Engineering, Mobile & AI

- **Secure web and mobile apps** (Flutter, React, .NET): security stories, code review, CI/CD scanning.
- **AI document processing with human review:** our team built AI invoice extraction that cut manual work 40%.

03 SECURE

Vulnerability Identification, Remediation & ISSO Support

- **Vulnerability management:** recurring scans, risk-based triage, and remediation tracked to closure in the POA&M.
- **ISSO support:** control implementation, security documentation, security impact analysis for changes, and continuous monitoring deliverables.

04 AUTHORIZE

Security Plan Assessment & FedRAMP Audit Support

- **System Security Plan review and gap assessment** against NIST SP 800-53 and the applicable FedRAMP baseline.
- **Assessment and audit readiness:** evidence packages, POA&M management, and support during 3PAO and agency assessments.

05 GOVERN

Agile Delivery, Project Management & CAB

- **Agile delivery:** sprint cadence, backlog management, and status reporting the prime can roll up.
- **Change Advisory Board support:** change requests, security impact analysis, and release evidence for every deployment.

// WAYS TO START

Assessment Readiness

FIXED SCOPE

SSP gap assessment, POA&M cleanup, and an evidence package for an upcoming assessment or audit.

Remediation Sprint

FIXED SCOPE

Triage and remediate a vulnerability backlog, with closure evidence for the ISSO.

Modernization Pod

FFP OR T&M

An agile team for cloud migration, enhancements, or mobile delivery under the prime's governance.

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