BiaTech Internship Summary

AI Engineering Intern – Summer 2026

BiaTech Corporation – Founded in 2023 as a Delaware C – corporation
Hybrid / On-site 3 days a week (Houston, TX area preferred)
Summer 2026 (10–12 weeks)
Paid Internship (via TEX-E / Greentown Labs, pending approval)

About BiaTech

BiaTech is a deep-technology company building Physical AI systems that bridge the digital and physical worlds for energy resilience and adaptation. Our work combines edge computing, advanced sensing, digital twins, and physics-informed machine learning to help industrial operators understand, maintain, and modernize critical infrastructure.

Our mission is to bring intelligence to physical systems—equipment, facilities, and field operations—by fusing real-world sensor data with AI models grounded in first principles of physics and engineering. We focus on applications across energy, industrial operations, and infrastructure where reliability, safety, and performance matter.

Our Values and Culture

- First-principles thinking rooted in physics and engineering fundamentals
- Hands-on engineering with real-world systems
- Technical rigor with practical, deployable impact
- Ownership and accountability at all levels, including interns
- Cross-disciplinary collaboration
- Strong emphasis on learning, mentorship, and professional growth

Internship Overview

BiaTech is seeking a Summer 2026 AI Engineering Intern to support work in equipment digital twins, physics-informed machine learning (PIML), and Physical AI embedded systems. This role is ideal for students in Electrical Engineering, Computer Science, or Mechatronics Engineering who want hands-on experience building AI systems that interact with the physical world.

Interns are fully embedded in active R&D and product development efforts and are treated as contributing engineers.

Roles and Responsibilities

- Contribute to the development of equipment digital twins, including system models and data integration
- Support physics-informed machine learning workflows combining sensor data with physical constraints
- Assist with embedded and edge AI systems, including data ingestion and model deployment
- Work with real sensor data such as vision, LiDAR, acoustic, or operational telemetry
- Develop and test software components using BiaTech development workflows
- Participate in design reviews and technical architecture discussions
- Document work clearly and contribute to internal knowledge bases
- Collaborate across software, hardware, mechanical, and AI disciplines

Training, Onboarding, and Support

Interns receive structured onboarding covering company operations, security policies, development workflows, and collaboration tools. Each intern is assigned a technical mentor and participates in regular check-ins focused on progress, learning, and impact.

Desired Background

- Currently pursuing a degree in Electrical Engineering, Computer Science, Mechatronics Engineering, or related field
- Experience or coursework in programming, embedded systems, robotics, or machine learning
- Interest in AI systems interacting with physical equipment
- Ability to work independently while collaborating within a small team

What You Will Gain

- Hands-on experience building real Physical AI systems
- Exposure to industrial and energy infrastructure applications
- Mentorship from experienced engineers and founders
- A strong technical portfolio demonstrating real-world impact
- Potential future opportunities with BiaTech

Appendix

This appendix provides guidelines, expectations, and resources for interns at BiaTech Corporation. BiaTech interns work on cutting-edge initiatives including equipment digital twins, Physics-Informed Machine Learning (PIML), and Physical AI embedded systems. The goal of the internship program is to provide meaningful, real-world experience while advancing BiaTech's technical mission.

1. Internship Program Structure

Each internship has a clearly defined structure, including duration, learning objectives, and expected outcomes. At the start of the internship, interns will receive an overview of BiaTech's mission, values, products, and culture. Project milestones and deliverables will be defined upfront to ensure alignment and clarity.

2. Roles and Responsibilities

Intern roles are defined through detailed job descriptions and project briefs. Interns are expected to take ownership of assigned tasks and contribute meaningfully to active development efforts. Responsibilities are aligned with each intern's academic background, skills, and professional interests.

3. Training and Onboarding

BiaTech provides a structured onboarding process designed to quickly integrate interns into active technical work while maintaining strong security, documentation, and engineering standards. Onboarding covers company operations, information security policies, development workflows, and collaboration norms. Interns are expected to approach onboarding as an essential part of their engineering responsibilities.

Technical onboarding introduces interns to BiaTech's core software stack, hardware platforms, and data pipelines, with emphasis on how these systems interoperate to support equipment digital twins, Physics-Informed Machine Learning (PIML), and Physical AI embedded systems.

Key tools and platforms commonly used at BiaTech include:

- Blender for 3D modeling, visualization, and digital twin asset development
- Onshape for collaborative mechanical design, CAD version control, and system assemblies
- AWS DynamoDB and Amazon S3 for structured metadata storage, sensor data, model artifacts, and experiment outputs
- Google Workspace / GCP for documentation, shared drives, calendars, and collaboration
- NoMachine and AnyDesk for secure remote access to edge devices, development workstations, and test systems

- Additional tools for version control, simulation, embedded development, and analytics as required by specific projects

Access to systems and data is provisioned on a least-privilege, role-based basis, and interns are expected to follow all security, data handling, and operational guidelines at all times.

AWS Toolkit (to be updated by our Lead Developer, tailored to the specific role)

This is the AWS services, system architecture, data flows, and access policies relevant to the intern's assigned projects. It may include (but is not limited to):

- AWS services in use (e.g., S3, DynamoDB, IAM, EC2, Lambda, IoT, etc.)
- Environment separation (development, testing, production)
- Data ingestion and storage patterns
- Security and access controls (IAM roles, permissions, credentials handling)
- Cost-awareness and responsible cloud usage expectations

4. Mentorship

Each intern is assigned a mentor who provides technical guidance, context, and feedback. Mentors conduct regular check-ins to review progress, unblock challenges, and help interns connect their work to broader system-level goals.

5. Inclusive Workplace Culture

BiaTech is committed to maintaining a respectful, inclusive, and collaborative work environment. Interns are encouraged to ask questions, share ideas, and engage openly with team members across disciplines.

6. Professional Development

Interns are encouraged to grow professionally through exposure to system design reviews, customer problem contexts, and internal technical discussions. Where appropriate, interns may attend industry events, technical talks, or conferences.

7. Feedback and Evaluation

Feedback is provided on an ongoing basis through bi-weekly check-ins. These discussions focus on accomplishments, areas for improvement, and skill development. The goal is continuous learning rather than formal performance grading.

8. Networking and Team Engagement

Interns will have opportunities to interact with engineers, researchers, and leadership across BiaTech. Team meetings and informal discussions are encouraged to build professional relationships.

9. Health, Well-Being, and Work-Life Balance

BiaTech values sustainable productivity. Interns are expected to communicate availability clearly and maintain healthy work habits. The company holiday schedule will be shared at the start of the internship.

10. Post-Internship Opportunities

At the conclusion of the internship, BiaTech will communicate any potential opportunities for continued collaboration. When full-time roles are not immediately available, mentors may provide guidance and references for future career opportunities.

Acknowledgment

By participating in the BiaTech internship program, interns agree to uphold these guidelines and contribute professionally, ethically, and collaboratively to the organization.