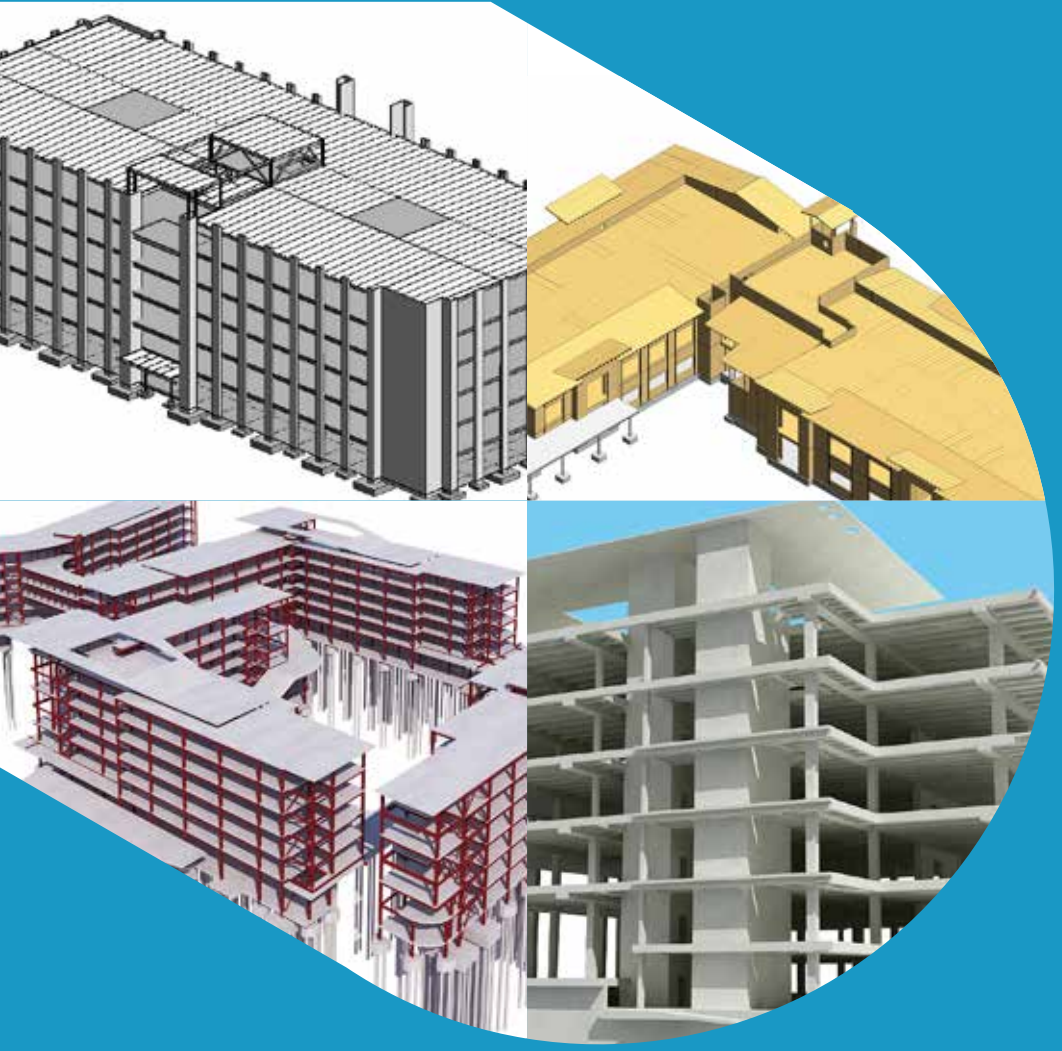


ISO 19650
Certified

Structural Engineering – BIM Services

Driving efficiency, accuracy, and constructability through BIM

30+ years

pinnacleinfotech.com

Pinnacle
Construction Lifecycle. Reimagined.

Mission

Enable smarter design, engineering, construction, and operations through integrated digital solutions, driving performance, efficiency, and sustainability across:

- Intelligent design delivery
- Collaborative pre-construction planning
- Agile construction execution
- Reliable operations & facility management

Vision

To redefine the global construction lifecycle through intelligent digital transformation.

Associations:

Our Values

E **Excellence**
We take pride in our passion for excellence. It is a way of life for us.

A **Agility**
We are always at the edge of technology and driven by agile transformations.

R **Reliability**
We have ISO-certified processes and workflows to produce consistent and reliable performance.

T **Teamwork**
Pinnacle provides an environment where teams collaborate effectively to excel.

H **Honesty**
We win the trust of our stakeholders through integrity, straightforwardness, and transparency.

Our Way of Giving Back

Ankuran Foundation

A first-of-its-kind, not-for-profit, national network of world-class learning centers that impart Science Education through experiential learning to school students from diverse backgrounds. To learn more, visit Ankuran.org

Ankuran
Where Knowledge Germinates

Index

1. Revolutionizing Structural Engineering — Page 04

2. Benefits of Implementing BIM for Structural Engineers — Page 04

3. BIM Services for Structural Engineers — Page 05

   3.1 Structural Analysis and Design Validation

   3.2 Design Development Support

   3.3 Constructability and Buildability Reviews

   3.4 High-accuracy 3D Structural Modeling, 2D Drafting & Detailing

   3.5 Drawing Set Creation / Construction Documents

   3.6 Quantity Take-off & Cost Estimation

4. Why Pinnacle? — Page 08

5. Our Team — Page 08

6. Our Infrastructure — Page 09

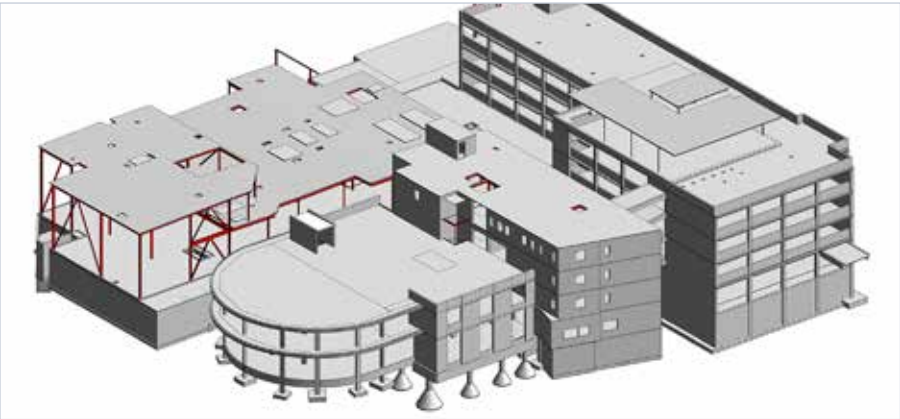
7. Our Work Processes — Page 09

8. Our Projects — Page 10

9. Clients Speak — Page 11



1. Revolutionizing Structural Engineering



Structural BIM Model

Pinnacle leads the AECO industry worldwide, delivering transformative build solutions that connect design, engineering, construction, and O&M through advanced Digital Twins. Our team of architects, engineers, and construction technologists enables a performance, precision, and productivity-driven delivery model, supported by a forward-looking sustainability framework for the built environment.

In structural engineering, we revolutionize project execution by translating architectural intent into highly coordinated digital constructs. By engineering precise, clash-free shop drawings prior to groundbreaking, we eliminate downstream risks and optimize fabrication workflows. Anchored by a comprehensive command of international building codes, our Structural Engineering BIM solutions ensure absolute physical integrity, seamless multi-trade integration, and comprehensive lifecycle asset management.

2600+ Clients

18000+ Projects

30+ Years Exp.

4700+ Engineers & Architects

47+ Countries

15 Delivery Centers

2. Benefits of Implementing BIM for Structural Engineers

Enhanced Design Visualization

BIM enables the creation of intelligent 3D structural models that allow project stakeholders to visualize complex structural systems with clarity. This improves design comprehension, facilitates collaborative decision-making, and accelerates approvals during the design and pre-construction stages.

Improved Project Efficiency

By identifying design conflicts and coordination issues early in the project lifecycle, BIM significantly reduces construction delays, work stoppages, and costly rework. This proactive approach ensures smoother project execution both on-site and off-site.

Superior Documentation Quality

With model-based workflows, structural drawings are generated directly from coordinated 3D models, ensuring higher levels of accuracy, consistency, and constructability across project documentation.

Optimized Cost Management

BIM supports precise quantity extraction, efficient resource utilization, and improved planning, enabling project teams to minimize material wastage and avoid costly design revisions.

Integrated Project Management

The BIM environment provides a comprehensive digital representation of the project, enabling better planning, scheduling, progress tracking, and coordination among multidisciplinary teams throughout the project lifecycle.

Our clients have reported up to 15% cost savings by successfully implementing BIM

3. BIM Services for Structural Engineers

Pinnacle provides accurate, reliable, and cost-effective solutions for Structural Engineering firms. We specialize in the virtual construction of 3D BIM models using a range of inputs including contract documents, hand sketches, redlines, and design documents. While modeling, we validate wood, steel, and concrete structures for constructability, performance, and maintenance, checking column sizes, beam depths, openings, and clashes.

Our structural drafting & detailing services comply with international codes and structural standards as applicable for projects. We have an ISO certified process to document the clients' standards and preferences to ensure complete compliance.

We produce high-quality structural drawings across domestic and international markets in the AECO industry. We make a comprehensive analysis of the detailed structural elements like columns, beams, and floors for delivering projects in a risk-free environment.

Our Drafting and Detailing services are intended for High Rise RCC structures, Structural Steel, Industrial Sheds, Plants, Stacks, Mills, Commercial Buildings, Airports, Theatres, Warehouses, Hospitals, Parking Garage, Residential Complexes, Condos and Villas. We are platform-independent and work on major software applications including AutoCAD, Revit and Tekla.



Structural BIM Model

Pinnacle's BIM Services for Structural Engineers include

- Structural analysis and design validation
- Design Development Support
- Constructability and buildability reviews
- High-accuracy 3D structural modelling, 2D Drafting & Detailing
- Drawing Set Creation / Construction Documents
- Quantity Take-off & Cost Estimation

3.1 Structural Analysis and Design Validation

Pinnacle supports structural engineers with accurate analysis-backed modelling and independent design validation. We review structural systems for stability, load paths, and code compliance to ensure safety, efficiency, and constructability. Our validation approach helps identify design risks early, optimize material usage, and strengthen overall project reliability.

3.2 Design Development Support

Pinnacle supports Structural Engineers throughout the design lifecycle with advanced BIM expertise and a highly skilled delivery team. We collaborate closely with engineers to understand design intent and convert concepts into buildable information — from early schematic stages through construction.

The inputs required by Pinnacle include any or all of the following

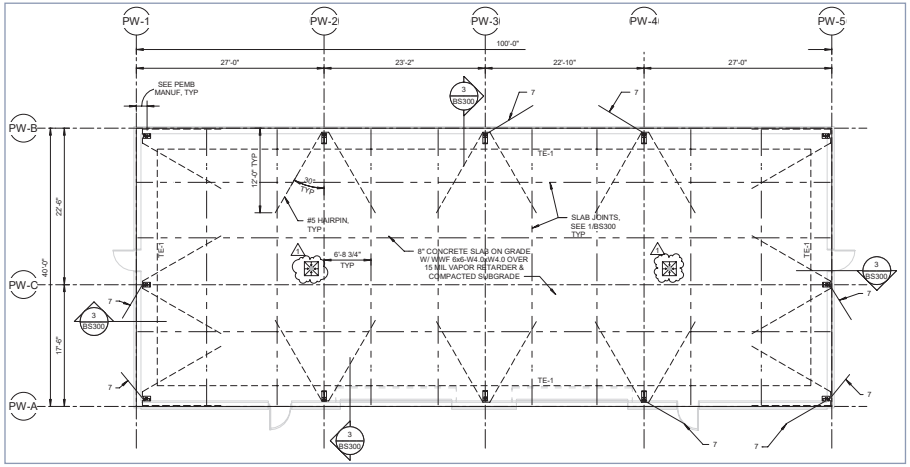
- Conceptual Drawings
- Hand-sketches
- 2D Drawings
- Go-by Project
- Architecture Background
- Red-Line Mark-ups
- Structural Framing Plans, Geotech

Pinnacle's engineers translate designers' thoughts, expressed through the aforesaid inputs, into buildable information in the form of 2D drawings and/or 3D models.

The above process passes through one or more of the following stages of Design Evolution:

A. Schematic Design (SD) Stage

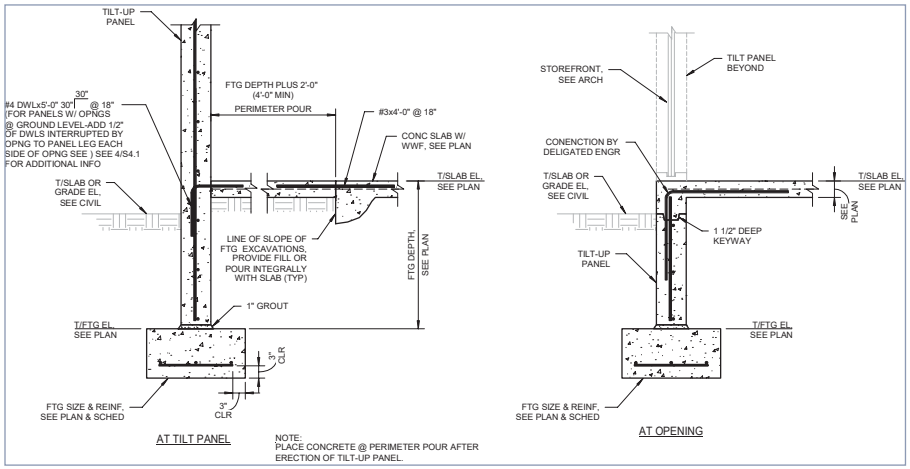
Schematic design is an initial design scheme that seeks to define the general scope of the project, including scale and relationships between building components. The engineer's/ designer's sketches interpreting the client's desired functional relationships between various activities are translated to the Revit model. At this stage, the description is in terms of a set of integrated ideas and concepts about what the proposed system should do, behave and look like. The model is used for preliminary studies like overall project phasing. Analysis based on overall systems can be performed and quantities based on specific elements can also be obtained.



Schematic Design Sample

B. Detail Design (DD) Stage

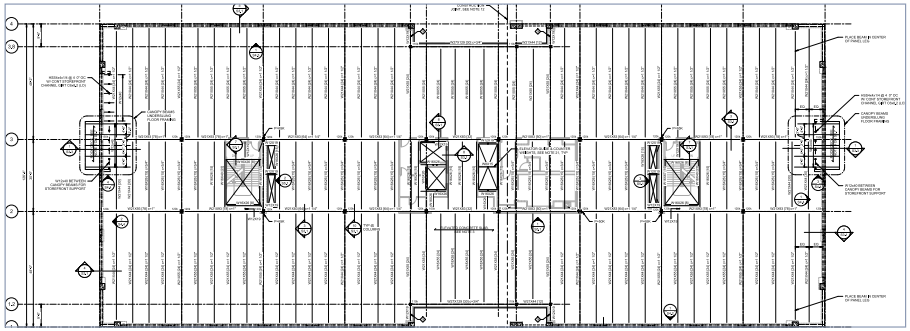
Detail Design is the stage following schematic design where the schematic design decisions are worked out in greater details. The details get reflected in the Revit model. This also provides the client with drafted to-scale drawings, illustrating how the project would look like after the construction gets over. The model can be leveraged for the generation of traditional Construction Documents and Shop Drawings and can be used for the analysis of Clash & Cost.



Detail Design Sample

C. Construction Documentation (CD) Stage

Construction Documentation is a bridge between building design and physical building form. It encompasses the preparation of drawings and specifications that set forth the detailed requirements for the construction of a building project. The Models include elements that are accurate in terms of size, shape, location, quantity and orientation with complete fabrication, assembly and detailing information. Analysis can also be performed at this stage such as Clash Detection, Sequencing & Cost.



Construction Documentation Sample

3.3 Constructability & Buildability Reviews

Pinnacle evaluates structural models with a construction-first mindset, ensuring designs are practical, efficient, and site-ready. Our reviews identify potential execution challenges early, optimize sequencing, and improve detailing to reduce rework, delays, and material waste — enabling smoother construction and predictable project outcomes.

3.4 High-Accuracy 3D Structural Modeling, 2D Drafting & Detailing

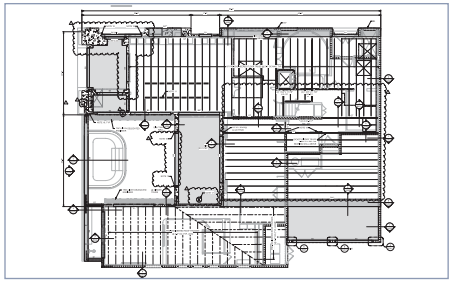
Pinnacle delivers precision-driven BIM structural models that enhance planning, coordination, and execution. Using advanced BIM workflows, we enable seamless collaboration, faster decisions, and accurate documentation.

We develop detailed 3D models for steel, RCC, and timber structures based on approved designs. These models support validation, clash detection, and constructability.

Our BIM approach improves detailing accuracy, prefabrication readiness, and efficiency, while enabling automated reporting, accurate quantity take-offs, and better cost and project control.

Pinnacle offers 3D BIM Modeling for the following structures

Reinforced Cement Concrete Structures like Buildings, Tanks, Steel Plate Girder, Industrial Sheds, Gantries & Truss Girder, Wooden Structures like Sheds & Residential Structures, Steel & Composite Structures Pre-stressed and Post-tensioned Structures like Parking Structures.



Input Sample



Output Sample

3.5 Drawing Set Creation / Construction Documents

Pinnacle produces accurate, coordinated construction drawings directly from intelligent BIM models, ensuring consistency between design intent and site execution. Our drawing sets include detailed plans, sections, elevations, schedules, and model-based Quantity Take-Offs (QTO) that are fabrication-ready and aligned with project standards. Automated, model-driven documentation and quantity extraction reduce errors, improve cost accuracy, accelerate revisions, and enable faster approvals — helping teams move from design to construction with clarity and confidence.

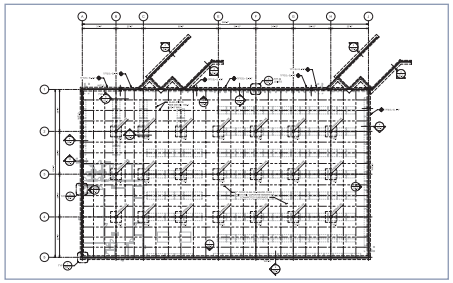
Pinnacle produces parts, assembly and DXF drawings for complex wooden structures from 3D models.

Our Construction Drawings serve the following areas

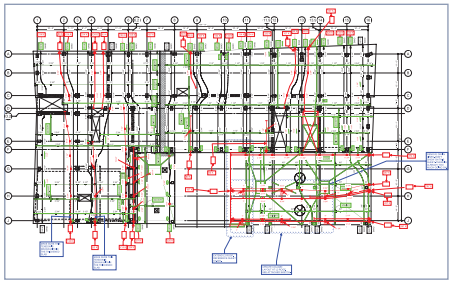
- 2D Drafting & Detailing
- Portable Structures
- As-Built Construction

We generate and deliver the following drawings from 3D BIM Model

- Rebar/ Post-Tension Detailing
- Concrete Structure Drawings
- Steel Structure Drawings
- Wood Structure Drawings
- Sections, Details & Elevations
- Schedule – Column, Beam, Slab



Reinforcement Drawing - Output Sample



Post Tensioning - Output Sample

3.6. Quantity Take-off & Cost Estimation

BIM enables structural engineering teams to generate highly accurate material quantity take-offs directly from coordinated 3D models. Any design modification within the BIM model automatically updates the associated quantities, ensuring that estimates remain precise and aligned with the latest project information.

Pinnacle provides reliable quantity take-off and cost estimation services that support both construction and pre-construction planning. Our model-based approach helps project stakeholders improve productivity, enhance coordination, and perform effective constructability analysis during the early stages of the project lifecycle.

We assist teams in planning, preparing, and updating project schedules while enabling informed decision-making that improves facility design, construction efficiency, and long-term lifecycle performance. By integrating BIM data with key business functions—such as procurement, contract management, document control, cost accounting, project management, budget evaluation, and risk management—organizations gain greater transparency and control over project delivery.

4. Why Pinnacle

Each of our employees is committed to the core values - 'EARTH' of our organization.

Excellence | Agility | Reliability | Teamwork | Honesty

Excellence

Excellence is a way of life for us. Our commitment to hard work, creativity, and innovation allows us to reach our full potential in approach, operations, and collaborations. We foster a culture of excellence from the ground up within our organization to achieve operation at the highest industry standards.

Agility

We understand that every business is different. We are highly agile and can adjust quickly to changing market conditions and client requirements. In addition, we offer a variety of business models to suit your specific needs at competitive prices.

Reliability

Pinnaclites rely on trusted ISO-based processes to consistently produce excellent results. We have over 30 years of experience in the AECO industry, and our work processes are ISO-certified.

Teamwork

We work together to scale every challenge. We understand that teamwork can provide the best possible results for our customers. Pinnacle fosters a team-oriented culture where everyone is valued, and their contributions are encouraged and recognized.

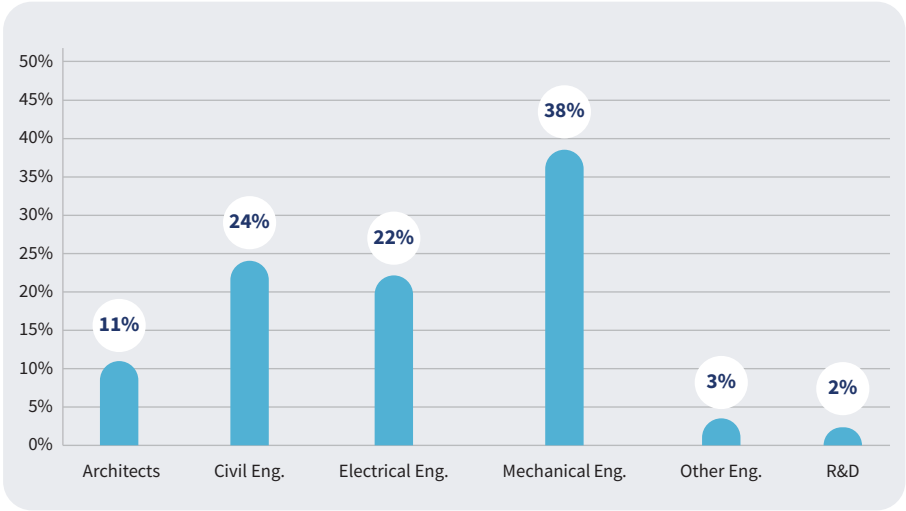
Honesty

Honesty is our key value, and we hold ourselves to the highest standards of integrity. We are transparent and clear in our communication to ensure that our clients get the best value for the money.

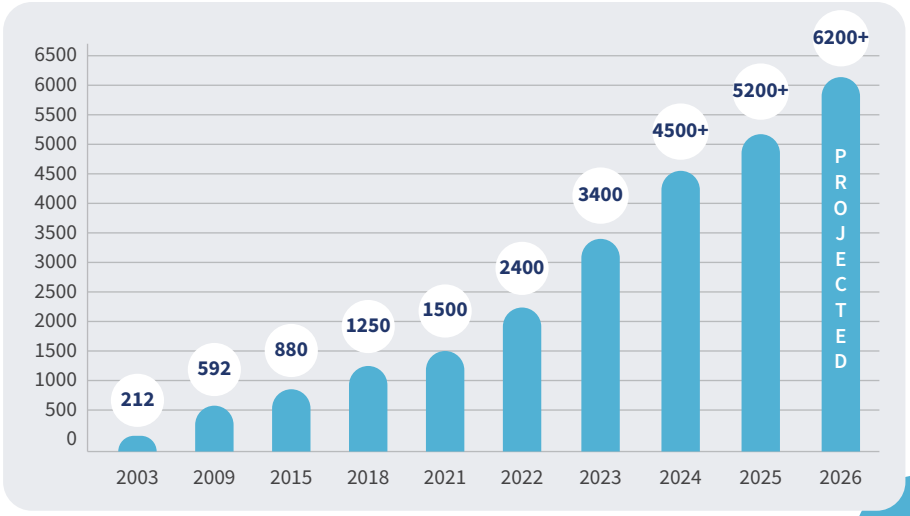
5. Our Team

Integrating digital delivery solutions across the AECO lifecycle, Pinnacle brings together engineers, architects, and construction technologists with expertise in international construction codes and standards. Through 15 global delivery centers, we support complex infrastructure and building projects with precision-driven workflows.
Our multidisciplinary teams deliver across sectors, including stadiums, airports, data centers, semiconductor facilities, mixed-use developments, healthcare, and more.

Employee Background



Workforce Growth



6. Our Infrastructure

Pinnacle has large state-of-the-art campuses in Durgapur, Jaipur, Kolkata, Madurai & Bengaluru comprising facilities like High-speed Bandwidth, Blade servers, an R&D center, a Datacenter, recreational zones, playgrounds, and more.

We also have equipped global delivery centers in the US (Houston, Atlanta, and San Jose), Canada (Toronto), UK (London), KSA (Riyadh), UAE (Dubai), Singapore, Germany (Cologne), and Japan (Tokyo) that allow our employees to work in the same time zone as our customers.

Pinnacle's Constructability Installation Lab provides construction site experience to employees, integrating theoretical learning with practical experience. It enables our employees to deliver integrated AECO solutions on time and with accuracy.



7. Our Work Processes

Efficient process management and consistent communication are at the heart of how we deliver outsourced services. Certified to ISO 9001:2015, ISO/IEC 27001:2022, and ISO 19650-2, 19650-3, and **19650-5**, we follow internationally recognized standards for quality and security-minded BIM information management, ensuring reliable data handling and transparent collaboration. Each project is backed by a dedicated Relationship Manager, a Project Delivery Head, and Project Managers focused on execution.

Relationship Management

Our relationship managers are co-located with customers, ensuring clear communication, managing timelines, and handling deliveries promptly to surpass customer expectations. They advise customers on the services Pinnacle provides and build long-term business relationships.

Production Process

Project teams report to Project Delivery Head (PDH). The PDH provides technical leadership to the team and ensures standard work processes (as per ISO norms) are followed. They oversee project delivery. Project Delivery Heads periodically communicate with the client to get regular feedback and ensure the successful completion of the project.

Project Managers handle small teams for a customer and are responsible for understanding project requirements, project standards, invoicing processes, and communication protocols. They prepare project templates per project specifications, plan resources and align project delivery schedules.

Auditing Process

The COE team is an independent body in the company for Process and quality management and monitors the process and quality through various audit parameters, sets up feedback management processes, carries out investigations in case of any complaints/concerns, and provides action items. This way, Pinnacle ensures consistency in the final deliverables throughout the company.

Quality Control Process

Pinnacle’s efficient processes and stringent quality control mechanisms have added certainty to 18,000+ projects worldwide. Our process orientation and quality control are per ISO 9001:2015, ISO/IEC 27001:2022, ISO 19650-2, ISO 19650-3, and **ISO 19650-5** standards and are managed by an independent QC team.

8. Our Projects

NASA Lyndon B. Johnson Space Center

Houston, USA



Iron Point Road Apartments

Folsom, USA



Meridian Outer Banks Apartments

Meridian, USA



Boston Children's Hospital

Boston, USA



Battersea Power Station Phase 4

London, UK



Kidbrooke Station Square Complex

London, UK



9. Clients Speak

"Pinnacle has been great, and we are happy to work with you. We appreciate that Pinnacle always completes on time and to our standards. Also, we appreciate the flexibility to take on more work necessary to complete the job."

Forell/Elsesser Engineers Inc., USA

"We are delighted with the performance of Pinnacle. They made a big effort to ensure our documentation was accurate and met our design intent. They have also done a great job in meeting some tight deadlines. We will be engaging them again on projects in our pipeline."

Sensum Engineering, Australia

"I have been pleased with the work the Pinnacle team has done for us so far. The work is done promptly and completely to a satisfying level."

Catena Consulting Engineers, USA

"We were very satisfied with the work done by Pinnacle team."

Forell/Elsesser Engineers Inc., USA

"The team is very professional and timely, and I genuinely appreciate the quality of work and their advice and guidance in a new process for us as a control contractor. Great work!"

Muia Steel Ltd., Canada

"Working with Pinnacle has been great. It helps take the stress out of meeting our deadlines on time. Overall very good. We will utilize their team again. We appreciate your attentiveness and response and ability to meet our requested deadlines."

McVeigh & Mangum Engineering, USA

"This was a complex project with a lot of architect driven changes throughout the process. There were hiccups, which we expected, but Pinnacle worked through them all with us."

McNamara Salvia Structural Engineers, USA

"Responsive to comments and questions and work was delivered on time. Provided services met expectations. We were very satisfied."

RBA Structural Engineering, USA

"Everything worked very well for us. We will definitely be using your services in the future."

Stearn-Joglekar Ltd., USA

"Quick response time with daily model updates from the Pinnacle team helped to make the process very smooth. Easy to use RFI process with quick feedback."

LeMessurier Consultants, USA

"Overall good experience. Complicated Job with keeping track of many design changes and RFIs that were issued on the job. Pinnacle preformed very well with the large amount of changes on this hospital project. All the section views and keys/legends provided on the shop drawings meet expectations and were outstanding. The most important thing is that when it came to the end of the project Pinnacle stepped up and produced the needed changes in a timely manner."

Urata & Sons, USA



India Office Locations

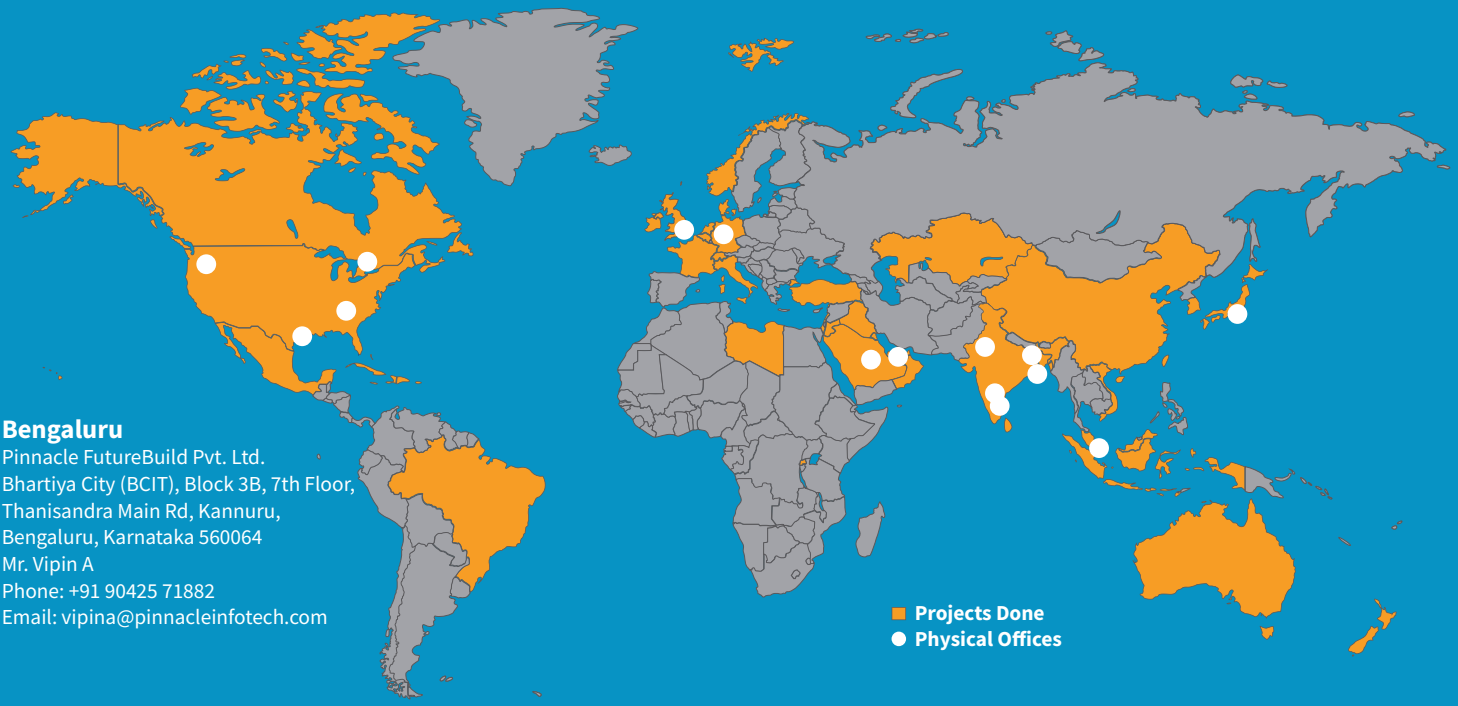
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