Architectural, Engineering & Construction (AEC) Outsourcing Services
OUTSOURCING - THE CONCEPT

Outsourcing is a business reality for large companies in USA across different functions like IT, finance, customer care, marketing and human resources. Increasingly small and mid-sized businesses are exploring outsourcing to avail of its multiple benefits. Architectural, Engineering & Construction (AEC) outsourcing services is helping many businesses reduce costs and be competitive in the market.

AEC outsourcing services is a relatively new concept in building construction that enables all the stakeholders to share the information and make the whole process more efficient. With the introduction of advanced 3D CAD softwares the construction professionals can now take the 2D design methods into the era of fast and accurate 3D design that offers unprecedented flexibility and freedom to play with designs and shapes.

WHY OUTSOURCE

Computer aided design (CAD) and drafting offer multiple benefits to Architectural, Engineering and Construction firms such as:

- **Lower cost of production and documentation** – generate cost savings of 30–50% by outsourcing
- **Helps you focus on your core competencies and innovate further** – expand without worrying about staffing and training costs
- **Complementary time zone difference** – We work when you sleep
- **Staff with at-least four years of experience** in 3D CAD drawing and drafting services to US firms
- **Flexibility in your staffing levels** – hire us only when you need us
- **Faster turnaround time** – shorter project delivery times due to process expertise and efficiency

COST SAVINGS COMPARISON - OUTSOURCING PROCESS

All figures in USD

<table>
<thead>
<tr>
<th>Graphic Designer/Engineer</th>
<th>US Employee</th>
<th>Offshore Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Salary</td>
<td>41000</td>
<td>30000</td>
</tr>
<tr>
<td>Payroll Taxes (8%)</td>
<td>3280</td>
<td></td>
</tr>
<tr>
<td>Overhead Costs (10%)</td>
<td>4100</td>
<td></td>
</tr>
<tr>
<td><strong>Total Cost</strong></td>
<td><strong>48380</strong></td>
<td><strong>30000</strong></td>
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<table>
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<tr>
<th>Sr. Graphic Designer/Engineer</th>
<th>US Employee</th>
<th>Offshore Cost</th>
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<tbody>
<tr>
<td>Annual Salary</td>
<td>53000</td>
<td>38400</td>
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<tr>
<td>Payroll Taxes (8%)</td>
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<tr>
<td>Overhead Costs (10%)</td>
<td>5300</td>
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<tr>
<td><strong>Total Cost</strong></td>
<td><strong>62540</strong></td>
<td><strong>38400</strong></td>
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Outsourcing generates 30%–50% cost savings
Our expertise lies in virtual design & construction (VDC) and BIM services for residential, commercial, industrial, educational and public building facilities.

**CAD SERVICES**
- PDF/Paper to CAD Conversion
- Site Drawing
- Tender / Bid Drawing
- Construction Documentation
- 2D to 3D CAD conversion

**BIM SERVICES**
- Preparation of BIM or 3D models
- Architectural Modeling
- Structural Modeling
- Mechanical, Electrical and Plumbing (MEP Modeling)
- Signage Modeling
- Visualization comprising of
  - Image Rendering from 2D or 3D models
  - Walkthrough / Flythrough BIM Models
  - 2D/3D Modeling from site plans or surveys
- Clash Detection between the elements in the same discipline or different disciplines
- Model based Quantity Takeoff
- 4D Phasing – linking the 3D Model with the Project Schedules

**VIRTUAL REALITY FOR AEC PROJECTS**
- 2D - 2 dimensions (flat)
- 3D - 3 dimensions e.g. width, length and height
- 4D - Adding the aspect of time to a project (phasing/sequencing)
- 5D - Adding the aspect of cost to a project (cost estimating)
- 6D - Adding the aspect of energy consumption to a project (accurate energy estimates)
- 7D - The aspect of Life Cycle Management

**SOFTWARE EXPERTISE**

<table>
<thead>
<tr>
<th>Software</th>
<th>Type</th>
<th>Expertise Level</th>
<th>Software</th>
<th>Type</th>
<th>Expertise Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphisoft ArchiCAD</td>
<td>ARCH+STR+MEP</td>
<td>High</td>
<td>Bentley Structural Modeler</td>
<td>STR</td>
<td>Medium</td>
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<tr>
<td>Autodesk Revit Architecture</td>
<td>ARCH</td>
<td>High</td>
<td>Tekla Structures</td>
<td>STR</td>
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<td>Bentley Architecture</td>
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<tr>
<td>Autodesk Revit Structure</td>
<td>STR</td>
<td>High</td>
<td>Vico Office Suite</td>
<td>Project Management</td>
<td>High</td>
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</table>
Since 2006, we have been serving many real estate and construction companies across United States and Canada.

Following are a few projects we have worked on:

- Site development of a residential project in Tacoma, Washington – 42,000 sq. ft.
- Single family apartments in Woodland, California – 1625 sq. ft.
- Assisted living homes in Burien, Washington – 1500 sq. ft.
**INCEPTION**
Study of existing architecture design standards and building plans. The phase also involves any training on architecture design and practices specific to the client.

**PLANNING & ANALYSIS**
Amend existing process as per outsourcing requirement.

**KNOWLEDGE TRANSFER**
Meetings and training to define rules and responsibilities.

**PILOT PHASE**
Test and check the services, understand the process.

**ONGOING PROCESS**
Ongoing CAD Design, Drafting and BIM Services.

**THE PROCESS**
A specialized outsourcing service provider with high domain and real estate industry experience. We have provided outsourcing services to more than **50+ real estate clients** across United States in last **ten years**.

- Strong delivery team of designers comprising of qualified Architects, Engineers and Cad Technicians
- Extensive project experience in USA
- Team well versed in American standards
- One stop solution for all your CAD and BIM requirements
- Scalable operations to meet any requirements either through in-house expansion or through our links with other service providers

**INFRASTRUCTURE**

Our service delivery is backed by robust and sound infrastructure with an emphasis on building systemic redundancies (back-ups) to ensure smooth and consistent delivery of services. Some of the key highlights are:

- Spacious 2500 Square Feet office set-up with modern facilities to ensure optimum productivity
- Uninterrupted power supply (with online battery back-up)
- Dedicated US based server located in an Ohio based datacenter with automated data back-up
- Dual monitor computers with latest technology configuration and 2 MBPS leased line and a high-speed backup internet connection
- Multiple US specific telecommunication facilities – VOIP US fax no., US phone no. (with Voice mail)
OutsourcingHubIndia (OHI) specializes in providing outsourcing services in accounting and human resource too. We have strong functional outsourcing expertise in end to end accounting processes covering daily accounting activities, month end and year-end account finalization processes, employee reimbursements, payroll processing, management reporting and financial analysis. We also provide human resource outsourcing related services, business research and marketing support services.

For a detailed description of our services please follow the link -

- Accounting service for real estate/property management firms [view]
- Accounting outsourcing services for small businesses [view]
- Accounting outsourcing services for mid sized businesses [view]
- Data processing/Bookkeeping services [view]
- Human resource outsourcing [view]

Some of Our Real Estate Clients

1. A midsized real estate firm based out of Gardena, CA. They manage properties throughout southern California, Orange County, and Inland Empire.

2. A vertically integrated, full service real estate company based out of Bellevue, WA. They specialize in commercial properties.

3. A well-known real estate firm based in Tampa (FL). They specialize in commercial real estate investment and property management services

4. A full service real estate firm, offering brokerage, construction, and development services. The company is based in Miami (FL)

5. A rapidly growing multi-family real estate firm based out of Tacoma, Washington. They specialize in single and multifamily residential properties
CONTACT US

US Office
244 Fifth Avenue
Suite D34
New York, N.Y. 10001–USA

Indian Office
198/30, 2nd Floor
East Of Kailash
New Delhi 110065–India

US Phone Number: 1–646–367–8976
Indian Phone Number: 91–11–26475715
Email: sales@outsourcinghubindia.com
Website: www.outsourcinghubindia.com