

	<h2>Job Description</h2>
<b>Job Title</b>	ICT Design Engineer-Data Center
<b>Department</b>	M&E Engineering
<b>Company</b>	B-Global Tech Sdn Bhd
<b>Reports To</b>	MEP Lead / Sr. Mechanical Engineer
<b>Location</b>	Japan (Tokyo)
<b>Job Purpose</b>	<p>The ICT Design Engineer for Data Centers is responsible for the end-to-end design of ICT infrastructure that supports mission-critical data center operations. This includes structured cabling, networking pathways, physical security systems, and integration with mechanical and electrical infrastructure to ensure high availability, scalability, and compliance with global data center standards.</p>
<b>Key Responsibilities &amp; Accountabilities</b>	<ul style="list-style-type: none"> <li>• Develop detailed ICT design drawings, schematics, and technical specifications for data center facilities.</li> <li>• Design structured cabling systems (copper and fiber optics) for backbone, horizontal distribution, and inter-data hall connectivity.</li> <li>• Plan and design ICT equipment rooms, meet-me rooms, and pathways (racks, trays, conduits, raised floor systems).</li> <li>• Integrate ICT systems with MEP (Mechanical, Electrical, Plumbing) and architectural layouts.</li> <li>• Prepare bill of quantities (BOQ), cost estimates, and tender documentation for ICT scope.</li> <li>• Ensure ICT designs comply with Tier standards (Uptime Institute / TIA-942), BICSI, ISO/IEC, IEEE, and local codes.</li> <li>• Review vendor proposals, shop drawings, and product submissions for compliance with project requirements.</li> <li>• Provide technical support during construction, installation, testing, and commissioning phases.</li> <li>• Perform site inspections to verify proper installation of ICT infrastructure in line with approved designs.</li> <li>• Work closely with cross-functional teams (electrical, mechanical, security, AV, and operations) to ensure seamless system integration.</li> <li>• Stay updated on emerging ICT technologies for data centers, recommending solutions that enhance efficiency, scalability, and resilience.</li> </ul>
<b>Qualifications &amp;</b>	<ul style="list-style-type: none"> <li>• Bachelor's Degree in Electrical / Electronics / Telecommunications / ICT Engineering or related discipline.</li> </ul>

<b>Skills</b>	<ul style="list-style-type: none"> <li>• 3–7 years of proven experience in ICT infrastructure design for <b>data centers</b>.</li> <li>• In-depth knowledge of structured cabling, data center networking, and ICT physical infrastructure.</li> <li>• Proficiency in AutoCAD / Revit / BIM for ICT design documentation.</li> <li>• Familiarity with Uptime Institute Tier Certification and TIA-942 standards.</li> <li>• BICSI RCDD or equivalent certification (preferred).</li> <li>• Understanding of coordination with MEP systems in data center environments.</li> <li>• Strong analytical and problem-solving skills with high attention to detail.</li> <li>• Effective communication and stakeholder management abilities.</li> <li>• Expertise in ICT infrastructure for mission-critical facilities.</li> <li>• Strong design documentation and technical writing skills.</li> <li>• Ability to manage multiple projects and deliver within deadlines.</li> <li>• Team collaboration with cross-disciplinary engineering teams.</li> </ul> <p>Commitment to high-quality design aligned with reliability and availability requirements.</p>		
<b>Level</b>	Specialist	Date Last Reviewed/ Updated	May 2026
<b>Prepared By</b>	Azzummar, HR Manager	Approved By & Date of Approval	

	<b>Job Description</b>		
<b>Job Title</b>	Jr. Electrical Engineer		
<b>Department</b>	M&E Engineering		
<b>Company</b>	B-Global Tech Sdn Bhd		
<b>Reports To</b>	MEP Lead / Sr. Electrical Engineer		
<b>Location</b>	Japan (Tokyo)		
<b>Job Purpose</b>	<p>This Junior Electrical Engineer will support the electrical engineering team in designing, analyzing, and implementing electrical systems for data centres and IT infrastructure projects. The successful candidate will gain hands-on experience in power distribution, energy efficiency, and sustainable engineering solutions.</p>		
<b>Key Responsibilities &amp; accountabilities</b>	<ul style="list-style-type: none"> <li>• Assist in the design, planning, and execution of electrical systems for data centres, telecommunications, and IT infrastructures.</li> <li>• Perform electrical load calculations, short circuit analysis, and power distribution planning.</li> <li>• Support the development of single-line diagrams, schematics, and layout drawings using CAD software.</li> <li>• Collaborate with cross-functional teams, including mechanical, structural, and IT engineers, to ensure seamless project execution.</li> <li>• Conduct site inspections, testing, and commissioning of electrical systems to ensure compliance with industry standards and safety regulations.</li> <li>• Research and implement innovative electrical engineering solutions focused on energy efficiency and sustainability.</li> <li>• Prepare technical reports, documentation, and project specifications as required.</li> <li>• Stay up to date with relevant industry trends, standards, and technologies.</li> </ul>		
<b>Qualifications &amp; Skills</b>	<ul style="list-style-type: none"> <li>• Bachelor's Degree in Electrical Engineering or a related field.</li> <li>• 1-3 years of experience in electrical engineering, preferably in data centres, telecommunications, or power systems.</li> <li>• Basic knowledge of electrical systems, power distribution, and renewable energy solutions.</li> <li>• Proficiency in AutoCAD, Revit, or other relevant design software.</li> <li>• Familiarity with industry standards such as IEEE, IEC, and local electrical codes.</li> <li>• Strong analytical, problem-solving, and communication skills.</li> <li>• Ability to work independently and collaboratively in a fast-paced environment.</li> <li>• Willingness to travel for project site visits and inspections as required.</li> <li>• Willingness to travel for site visits when required.</li> </ul>		
<b>Level</b>	Junior	<b>Date Last Reviewed/ Updated</b>	May 2026
<b>Prepared By</b>	Shukor, HR Manager	<b>Approved By &amp; Date of Approval</b>	

	<b>Job Description</b>		
<b>Job Title</b>	Jr. Mechanical Engineer		
<b>Department</b>	M&E Engineering		
<b>Company</b>	B-Global Tech Sdn Bhd		
<b>Reports To</b>	MEP Lead / Sr. Mechanical Engineer		
<b>Location</b>	Japan (Tokyo)		
<b>Job Purpose</b>	<p>This Junior Mechanical Engineer will support the mechanical design and development of mission-critical infrastructure projects, including data centres and telecommunications facilities. You will work closely with senior engineers to ensure high-quality, efficient, and sustainable mechanical solutions that meet client and industry standards.</p>		
<b>Key Responsibilities &amp; accountabilities</b>	<ul style="list-style-type: none"> <li>• Assist in the design, analysis, and implementation of HVAC, cooling systems, and mechanical infrastructure for data centres and IT facilities.</li> <li>• Conduct thermal load calculations, airflow analysis, and energy efficiency assessments to optimize mechanical systems.</li> <li>• Collaborate with multidisciplinary teams, including electrical engineers, architects, and project managers, to integrate mechanical solutions into overall project designs.</li> <li>• Support the selection and specification of mechanical equipment, including chillers, cooling towers, air handling units, and CRAC/CRAH units.</li> <li>• Assist in the review of technical drawings, schematics, and specifications to ensure compliance with industry standards and regulations.</li> <li>• Participate in site inspections, testing, and commissioning of mechanical systems to verify proper installation and performance.</li> <li>• Contribute to sustainability and renewable energy initiatives, ensuring designs align with energy efficiency and environmental goals.</li> </ul> <p>Research and stay updated on emerging trends, technologies, and best practices in mechanical engineering for data centres.</p>		
<b>Qualifications &amp; Skills</b>	<ul style="list-style-type: none"> <li>• Bachelor's degree in Mechanical Engineering or a related field.</li> <li>• 1–3 years of experience in mechanical engineering, preferably in data centres, HVAC, or building services.</li> <li>• Basic knowledge of HVAC systems, cooling technologies, and thermodynamics.</li> <li>• Familiarity with engineering design software such as AutoCAD, Revit, CFD analysis tools, or similar.</li> <li>• Understanding of industry standards and regulations (ASHRAE, ISO, Uptime Institute, etc.) is a plus.</li> <li>• Strong analytical, problem-solving, and communication skills.</li> <li>• Ability to work effectively in a collaborative, fast-paced environment.</li> <li>• Willingness to travel for site visits when required.</li> </ul>		
<b>Level</b>	Junior	<b>Date Last Reviewed/ Updated</b>	May 2026
<b>Prepared By</b>	Shukor, HR Manager	<b>Approved By &amp; Date of Approval</b>	

	<b>Job Description</b>		
<b>Job Title</b>	Mechanical Engineer		
<b>Department</b>	M&E Engineering		
<b>Company</b>	B-Global Tech		
<b>Reports To</b>	Senior Engineer / Specialist		
<b>Location</b>	Japan (Tokyo)		
<b>Job Purpose</b>	<p>supports project execution by assisting in the preparation of engineering models, drawings, calculations, and documentation under the supervision of senior team members. This role focuses on developing technical proficiency, ensuring quality and accuracy in deliverables, and contributing to the overall success of data center and related engineering projects.</p>		
<b>Key Responsibilities &amp; accountabilities</b>	<ul style="list-style-type: none"> <li>• Produce models, drawings, calculations, and related documentation in accordance with project standards and requirements.</li> <li>• Deliver assigned tasks accurately and within the specified timeline.</li> <li>• Collaborate with Specialists and Senior Engineers for design coordination and quality assurance.</li> <li>• Ensure compliance with company standards, codes, and client requirements throughout project delivery.</li> <li>• Apply feedback and mentoring from senior team members to continuously improve technical and professional skills.</li> <li>• Learn and apply relevant codes, standards, and best practices in data center design and engineering.</li> <li>• Participate in technical discussions, reviews, and training sessions to enhance knowledge and capability.</li> <li>• Contribute to knowledge-sharing initiatives within the team.</li> <li>• Provide guidance and support to Junior Engineers (Level 7) as appropriate.</li> <li>• Demonstrate accountability, initiative, and adaptability in project tasks and team interactions.</li> <li>• Exhibit readiness for progression to Specialist (Level 5) by taking ownership of work and showing growing technical independence.</li> </ul>		
<b>Qualifications &amp; Skills</b>	<ul style="list-style-type: none"> <li>• Bachelor’s Degree in Engineering (Mechanical).</li> <li>• 3–4 years of relevant engineering experience, Experience in data center is an advantage.</li> <li>• Familiarity with design software (e.g., AutoCAD, Revit, or discipline-specific tools).</li> <li>• Basic understanding of relevant codes and standards.</li> <li>• Strong attention to detail, time management, and communication skills.</li> </ul>		
<b>Level</b>	Engineer L 6	<b>Date Last Reviewed/ Updated</b>	13 <sup>th</sup> November 2025
<b>Prepared By</b>	Azzummar, HR Manager	<b>Approved By &amp; Date of Approval</b>	

	<b>Job Description</b>		
<b>Job Title</b>	Senior Mechanical Engineer		
<b>Department</b>	M&E Engineering		
<b>Company</b>	B-Global Tech		
<b>Reports To</b>	Principal/ MEP Lead		
<b>Location</b>	Japan (Tokyo)		
<b>Job Purpose</b>	<p>Senior Mechanical Engineer to lead the design, development, and implementation of mechanical systems for mission-critical infrastructure, including data centers and telecommunications facilities. He/She will have a strong background in HVAC, cooling systems, energy efficiency, and mechanical infrastructure design, ensuring optimal performance, reliability, and sustainability.</p>		
<b>Key Responsibilities &amp; accountabilities</b>	<ul style="list-style-type: none"> <li>• Lead mechanical design and engineering for data center projects, including HVAC systems, chilled water systems, and other critical infrastructure.</li> <li>• Prepare and review technical documentation, including drawings, specifications, and reports.</li> <li>• Coordinate with multidisciplinary teams, clients, and contractors to ensure project objectives are met.</li> <li>• Conduct design reviews, feasibility studies, and technical evaluations.</li> <li>• Provide technical guidance and mentorship to junior engineers.</li> <li>• Ensure compliance with quality, safety, and sustainability standards throughout the project lifecycle.</li> </ul>		
<b>Qualifications &amp; Skills</b>	<ul style="list-style-type: none"> <li>• Education: Bachelor’s Degree in Mechanical Engineering or related field.</li> <li>• Experience: Minimum 2–4 years of data center project experience.</li> <li>• Consultancy Background: Mandatory.</li> <li>• Proficiency in Microsoft Office Suite (Excel, Word, PowerPoint).</li> <li>• Proficiency in AutoCAD and Bluebeam (required).</li> <li>• Knowledge of other mechanical design software (e.g., Revit, CFD tools) is an advantage.</li> <li>• Strong communication, documentation, and coordination abilities.</li> <li>• Ability to work in a fast-paced, consultancy-driven environment.</li> <li>• Detail-oriented with strong problem-solving skills.</li> </ul>		
<b>Level</b>	Senior	<b>Date Last Reviewed/ Updated</b>	18 <sup>th</sup> November 2025
<b>Prepared By</b>	Azzummar Adzry, HR Manager	<b>Approved By &amp; Date of Approval</b>	