



Creative
environments

Job Description Engineer (MEP)

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Approval Record

Revisions

Ref	Description	By	Date
(P01)	Initial Issue	M.Spencer	

Quality Control

Prepared By: M.Spencer
 Checked By: M.Tebbatt
 Approved By: M.Tebbatt



Job Description for Engineer (MEP)

Main Details

Name:

Job title: Engineer (Electrical)

Department/Discipline: Building Services (MEP)

Place of work: 5 The Triangle, Wildwood Drive, Worcester WR5 2QX

Line Manager: MEP Technical Director

Principle Role

To provide design proposals, professional expertise and support, working in direct collaboration with the project design teams in competently implementing the requirements of individual project briefs and to perform the role of lead designer (where discipline applicable to role as lead), where so named in the company project quality plans (PQP).

To contribute to the success of the company.

Project Responsibilities

To be able to lead a project from inception through to the construction and handover phase, including preparing drawings, BIM models, specifications, tender and construction information, monitoring works in production and dealing with clients, contractors, sub-contractors, and suppliers.

Work as an integral collaborative member of a project team faithfully carrying out the activities that would be expected of a competent qualified design professional. Such duties include, but will not be limited to:

- Defining, recording, and maintaining by appropriate means project brief information from the client and/or other relevant parties to determine design input information.
- Preparing feasibility studies, building services strategy documents, fee proposals, and briefing documents, as necessary.
- The preparation of tender information to include services layouts, schematics and accompanying documents i.e., specifications; generally using BIM models where practical.
- Preparing detailed designs and/or construction details for whole (traditional) projects, buildings, elements or components, including associated specifications, schedules, calculations and the like; generally using BIM models where practical.
- Clearly communicating by appropriate means proposed solutions to all design team members and client team.
- Attending meetings, taking, preparing, checking, and issuing minutes where required.
- Acting as the point of contact for own discipline with other Lead Designers and the like.
- Preparing and coordinating discipline work stage programs for the design process.
- Coordinating the design of constructional elements including work by other disciplines and consultants, specialists, or suppliers.
- Ensuring the form and content of design outputs, their interfaces and verification procedures are in accordance with the requirements of the PQP.
- Contribute to the Consultant Appointment process to identify necessary fees.

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- Monitor and report on progress of own discipline to the DTL ensuring that resource utilisation for own discipline remains within the budget agreed; and
- Report to the DTL any disruptions to the resource utilisation caused by reasons beyond their own control and otherwise explain any discrepancies in anticipated profitability as soon as such discrepancies become apparent.

Learning Commitment

Disseminate 'new' information to others.

Ensure your own continued professional development by reading appropriate journals and by utilising the HIS information website to which the company subscribes.

Take a wider interest in the construction process and add value wherever possible.

Management Responsibilities

Contribute to MEP team planning and deployment.

Mentor junior members of the team.

Provide support and advice to enable the professional development of colleagues within the building services team and the company.

Where required manage and oversee project resources, including MEP contract resource (if necessary) for delivery of projects.

Ensure ONE maintains a positive profile and is proactive and consistent in its dealings with clients and contacts.

Work with the design teams on individual projects ensuring that solutions are identified which meet and where appropriate surpass the client brief/expectations.

Business Development

Work with new and existing clients to develop a firm foundation for long-term partnerships and to ensure that ONE is their first point of call for all their design, building services solutions.

Work with the design team on individual projects in a variety of sectors ensuring that solutions are identified which meet and surpass the client brief.

Identify new business opportunities and assist in the production of bid documentation.

Core Activities

Ensure the culture of the team is one of learning and creativity with people being willing and able to offer highly creative and innovative solutions.

Create an environment within the team where people enjoy the work they do and are able to create and exploit opportunities for self-development for their own and ONE's benefit.

Fully implement and/or cooperate in the implementation of the Company's Health and Safety policies & Quality Management Systems provided upon employment and as updated thereafter.

Contribute to the wellbeing of the Company by being always proactive in its development and improvement.

Carry out any other duty reasonably requested by the Directors.



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Key Activities and Responsibilities

Refer to the Person Specification for detailed technical skills and experience required for this position.

Review of Job Description

This job description outlines the current duties and responsibilities for this role; however, it is subject to review and amendment in the light of developing or changing services and as part of the annual Individual Performance Review.

NOTE: This description is not intended to establish a total definition of the job, but an outline of the duties.

Confirmation of Agreement

It is agreed that the duties and responsibilities identified above accurately reflect those required of the postholder.

Employee Signature:

Name of Director:

Signed:

Dated:

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Person Specification

Person Specification	Essential	Desirable
Qualifications	<p>MIET, HND, Bachelor's degree in a subject related to Building services.</p> <p>Working towards Engineering Council professional registration</p>	<p>IEng Low Carbon Consultant MCIBSE</p>
Knowledge and Experience	<p>Professional with more than 3 years' relevant post qualification experience, including individual responsibility for project delivery</p> <p>Experience of being involved through RIBA Stages 5 and 6, including site installation and commissioning processes.</p> <p>Hands on knowledge of passive design and associated building services to deliver sustainable buildings.</p> <p>Thorough first-hand knowledge of dynamic thermal modelling, and other leading analytical software.</p> <p>Demonstrable ability to work creatively both as lead designer and in collaboration with a multidisciplinary team.</p> <p>Thorough first-hand knowledge of modelling, specification and report writing for the discipline.</p> <p>Commercial awareness of working within client budgets and impact of design principles and selection of equipment on other disciplines.</p> <p>Experience in working in a Revit/BIM environment to deliver MEP design solutions.</p>	<p>Private sector experience in the design and realisation of sustainable building services systems, preferably in the healthcare sector, including BREEAM projects.</p> <p>Experience of running multiple projects.</p> <p>Experience of negotiating fees. Experience should be hands on with accountability for actions and results.</p>

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Person Specification	Essential	Desirable
<p>Skills and Abilities</p>	<p>Well-developed understanding of regulations and the drivers for low carbon design in the built environment.</p> <p>Ability to design creative solutions balanced with a strong technical ability to deliver high performance systems.</p> <p>Knowledge and awareness of current BIM standards, terminology and BIM process.</p> <p>Experience of using Revit and working in a BIM workflow. Experience of using Navisworks, managing and undertaking a clash detection process.</p> <p>Able to develop and communicate sketch proposals, select appropriate systems, prepare design drawings and illustrations, prepare tender and construction details and documentation, monitor works in production and on site, deal with clients, contractors and suppliers.</p> <p>Commercially aware in both business management and delivering to cost plan.</p> <p>Comfortable and proficient in using ICT effectively including sketch design, engineering analysis tools, Microsoft Office tools, especially Word and Excel. Knowledge and experience of controlling of outputs from CAD design systems including 3D drawing programmes (such as Revit) and dynamic thermal modelling.</p> <p>Able to work autonomously and on own initiative.</p> <p>Excellent project management and communication skills with demonstrable evidence of working to</p>	<p>Experience of working within multi-disciplinary teams with a passion for integrated collaborative design and delivery.</p> <p>Experience of working effectively in a multi-stakeholder environment.</p> <p>Experience of using IES Dynamic Thermal Modelling Software.</p> <p>Experience of working within a collaborative BIM workflow across multiple disciplines.</p> <p>Competent use of CAD design systems, 3D drawing programmes (such as Revit) and dynamic thermal modelling.</p>

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Person Specification	Essential	Desirable
	<p>time lines and within budget and able to manage a project team.</p> <p>Excellent liaison skills across the whole of the project team.</p> <p>Excellent attention to detail.</p> <p>Ability to make decisions in a timely manner based on information and facts.</p> <p>Demonstrable ability to work creatively both as lead designer and in collaboration with a multidisciplinary team.</p> <p>Good presentation skills, both verbally and visually.</p>	
Personal Qualities	<p>Empathy, sympathy and a desire to understand and respond to client problems and issues.</p> <p>An outstanding communicator with a positive and cheerful disposition.</p> <p>Well organised and works both effectively and efficiently to tight deadlines.</p> <p>Self-motivated.</p> <p>Client facing.</p> <p>Confident.</p> <p>Team player.</p> <p>Ability and drive to deliver in challenging circumstances including working occasional unsociable hours where applicable.</p>	

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Person Specification	Essential	Desirable
Other Attributes	<p>Demonstrable leadership and development of others.</p> <p>Expertise in the vanguard of low-carbon design coupled with a portfolio of successful project delivery.</p> <p>Ambition to succeed through excellence in delivery.</p> <p>Hold a full driving license and be prepared to travel within the UK and occasionally abroad.</p> <p>Keep up to date with innovative products and new legislation by attending regular CPD's.</p>	Potential for personal growth by developing technical, business and leadership skills.