

**Midland Metro Limited (MML) – Electrical Engineer**

<b>Post Title:</b>	Electrical Engineer
<b>Department:</b>	Engineering - Infrastructure
<b>Location:</b>	Midland Metro Ltd, Wednesbury Depot, Potters Lane, WS10 0AR
<b>Reporting to:</b>	Infrastructure Engineering Manager
<b>Direct Reports:</b>	None
<b>Role Purpose:</b>	<ul style="list-style-type: none"> <li>• To support Midland Metro Ltd.'s mission which is to provide a safe and secure, reliable and sustainable tram service</li> <li>• To ensure the smooth transition from construction into maintenance of the West Midlands Metro traction power and electrical systems</li> <li>• To provide technical support for maintenance activities</li> <li>• To provide engineering assurance for the West Midlands Metro infrastructure electrical assets</li> </ul>
<b>Role Responsibilities:</b>	<ul style="list-style-type: none"> <li>• Provide input to infrastructure projects at concept design stage advising contractors on MML standards and best practice on electrical systems</li> <li>• Undertake design reviews for new infrastructure traction power and electrical systems</li> <li>• Engage with contractors during construction phase to witness site activities and advice on technical changes</li> <li>• Act as MML's point of contact for traction power and electrical equipment testing and commissioning activities, review and comment on testing and commissioning documentation participate in testing and commissioning</li> <li>• Identify new maintenance requirements arising from new or renewed electrical infrastructure and include these in updated maintenance instructions</li> <li>• Attend stray current meetings, advise, and assist in the monitoring and management of stray current on West Midlands Metro infrastructure</li> <li>• Support maintenance planning with guidance on suitable spare parts, consumables, tools and equipment for substations and electrical equipment.</li> <li>• Develop capability for reliability improvement for traction power and electrical infrastructure including process for root cause analysis</li> <li>• Review quality of asset information on paper and/or in the AMIS to support asset plans, intervening to improve quality as required.</li> <li>• Ensure asset technical records relating to the West Midlands Metro electrical systems are complete, up-to-date, and accessible in the WMM Technical Library</li> <li>• Attend site as required to oversee work, inspect the condition of the electrical infrastructure, or liaise with third party contractors.</li> <li>• Support maintenance planning in identifying competencies required for maintenance work.</li> <li>• Develop the maintenance instructions, procedures, and associated documents, to help improve reliability of traction power and electrical maintenance.</li> </ul>

	<ul style="list-style-type: none"> <li>• Identify internal and external resource requirements to support engineering assurance.</li> <li>• Work night shifts on occasion as may be required to support emergency works or major planned overnight activity</li> <li>• Any other duties that are appropriate to the role.</li> </ul>
<b>Training:</b>	<ul style="list-style-type: none"> <li>• Electrical principles course</li> <li>• BS7671 18<sup>th</sup> edition wiring regulations</li> <li>• Telecommunications and fibre course</li> <li>• Smartrams operational and maintenance course</li> <li>• SCADA course</li> <li>• Personal track safety</li> <li>• Primoss</li> <li>• RAIB accredited agent training</li> <li>• IOSH</li> <li>• Competent person substation course</li> <li>• Courses for new equipment installed as part of upgrade or new extensions</li> <li>• ILM Level 2</li> <li>• Asset Management Information System (AMIS)</li> </ul>
<b>Health &amp; Safety:</b>	<ul style="list-style-type: none"> <li>• To be aware of your personal security and the security of your vehicle or place of work</li> <li>• To comply with health and safety instructions and directives issued by management</li> <li>• To use the appropriate safety equipment properly</li> <li>• To wear Personal Protective Equipment where applicable and report any loss</li> <li>• To refrain from the wilful misuse or interference with anything provided in the interests of health, safety, and welfare</li> <li>• To refrain from any action that might endanger themselves, other employees, customers, or members of the public</li> <li>• To ensure that all necessary safety precautions are taken and, if they are in a management or supervisory position ensure that instructions are provided</li> <li>• To report immediately any accidents, incidents or near misses to your line manager as soon as possible and always within 24 hours. This should include both personal injury and vehicle damage</li> <li>• To attend and cooperate in any investigation following an incident as required</li> <li>• To cooperate with your employer in attending and actively participating in any health and safety related training courses as required. To report immediately any hazard, faulty equipment or health and safety concern to your line manager and ensure action is taken to make the hazard safe i.e., fencing them off, using signs etc</li> </ul>
<b>Decision Making Authority:</b>	<ul style="list-style-type: none"> <li>• Within the remit of the job responsibilities</li> <li>• Declare traction power and other electrical infrastructure systems fit for operation or otherwise supported by Infrastructure team</li> </ul>
<b>People Management:</b>	<ul style="list-style-type: none"> <li>• Management of contractors as and when required</li> <li>• To work effectively as a member of the Engineering team</li> <li>• To work collaboratively and collectively with and across multi project teams</li> </ul>
<b>Legislation &amp; Compliance:</b>	<ul style="list-style-type: none"> <li>• In common with the whole rail industry, the successful applicant will be required to pass a stringent drugs and alcohol test.</li> </ul>

### Person Specification – Electrical Engineer

Tasks:	Level of Experience	Desirable Or Essential
<b>Work Experience:</b>	<ul style="list-style-type: none"> <li>• Proven experience of working as part of a team.</li> <li>• Experience of effective decision-making processes</li> <li>• Worked within the light rail or rail industry for more than five years in a similar maintenance environment role.</li> <li>• A good working knowledge of rail or light rail infrastructure or similar complex mechanical, electrical, electronic systems.</li> <li>• A good working knowledge and competent in electrical systems</li> <li>• Experience of using computer based diagnostic equipment.</li> <li>• Experience and competence in substation systems and maintenance</li> <li>• Competence in overhead line systems and maintenance</li> </ul>	Essential Essential Essential  Essential  Essential Essential Desirable Desirable
<b>Education:</b>	<ul style="list-style-type: none"> <li>• To have GCSE Maths and English at Grade C or above</li> <li>• Electrical qualifications</li> <li>• Higher level electrical qualification</li> <li>• Health and safety qualifications such as NEBOSH or IOSH</li> <li>• Management qualification to a minimum of ILM 2 or equivalent</li> <li>• Hold full UK Driving License</li> </ul>	Essential Essential Desirable Desirable Desirable Essential
<b>Managing People:</b>	<ul style="list-style-type: none"> <li>• Experience of technical leadership role</li> <li>• Ability to directly manage contractors</li> </ul>	Essential Essential
<b>Communication:</b>	<ul style="list-style-type: none"> <li>• Excellent interpersonal skills, able to communicate effectively at all levels within and outside the company</li> <li>• Excellent written and verbal communication skills</li> </ul>	Essential  Essential
<b>Additional Qualities:</b>	<ul style="list-style-type: none"> <li>• A flexible approach to working hours</li> <li>• Ability to use own initiative</li> <li>• Excellent attention to detail, including making accurate records either computer or paper based</li> <li>• The ability to think on your feet resolve problems and reasoning skills</li> </ul>	Essential Essential Essential  Essential
<b>Personal Attributes:</b>	<ul style="list-style-type: none"> <li>• To be trustworthy</li> <li>• To be reliable and punctual</li> <li>• Can comfortably work within a team or on their own</li> <li>• Able to always represent MML in a professional manner.</li> </ul>	Essential Essential Essential Essential
<b>Driving through Change:</b>	<ul style="list-style-type: none"> <li>• Keeping up to date with and promoting industry best practice</li> <li>• Evaluate technology for automation of tasks or measurements and use of special tools</li> </ul>	Essential  Desirable
<b>Drugs &amp; Alcohol</b>	<ul style="list-style-type: none"> <li>• To undertake drugs and alcohol testing in line with current company procedures and policy</li> </ul>	Essential