Role definition

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| Job title: | Engineer – Civil Engineering |

Role Overview and Key Purpose

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| **Role Overview**This exciting position is for a passionate all round Engineer (Highways and Civil Engineering) who has already obtained a good level of experience of working on a variety of Highway projects. The ideal candidate will be someone who wishes to ultimately lead highway projects but is also happy to work on other wider civil engineering projects to help advance their knowledge, skills and experience.You are expected to already have a strong track record in one or, preferably, multiple sectors that BakerHicks operates in and you will ideally be working towards becoming a Chartered Engineer. You’ll be part of an enthusiastic and committed team of Engineers and Technicians to deliver high quality output on projects. **Key Purpose*** Design and specify all aspects of our Highway and Civil Engineering works in accordance with current guidelines, standards, regulations and project deliverables
* Contribute to the development and mentoring of our Early Careers population and the continuous improvement of departmental capabilities
* Champion quality and compliance controls within local teams and projects
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Responsibilities and Accountabilities

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| **Responsibilities*** Provide Highway and Civil Engineering design and consultancy services on behalf of BakerHicks under the direction of the line manager or project lead.
* Produce design deliverables (including drawings, specifications and reports), site surveys, construction stage duties, client liaison with members of design/construction teams, project management, costing and ensure progress against the project brief.
* Check calculations and production of detailed drawings to ensure engineering designs meet appropriate quality and compliance controls, project brief and customer requirements.
* Collaborate closely with multi-disciplinary members of the design team to deliver safe, efficient and buildable solutions.
* Contribute to the preparation of enquiry plans, tender reviews, fee estimate sheets, scopes of work and change controls as required.
* Be fully conversant with the basics of relevant British Standards and Eurocodes with respect to civils and structural loading, design and specification.
* Attend design courses and seminars and feedback to the rest of the department where required.
* Keep up to date with ICE training and CPD requirements.
* Represent BakerHicks in external project technical meetings as required.
* Review specialist subcontractors/suppliers calculations and drawings for technical compliance with design intent.
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Knowledge, Experience and Qualifications

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| **Essential*** Good Highway Engineering background
* Degree qualified in Civil Engineering (or equivalent).
* Working towards Chartered or Incorporated Membership with the ICE or IStructE (or equivalent).
* Demonstrable experience of working on projects in at least one sector that BakerHicks operates in.
* Confident communication and presentation skills with the ability to explain complex ideas simply.
* An ability to develop relationships with both internal and external stakeholders that deliver long term benefits.
* Considerable civil engineering design, technical detailing and specification writing experience.
* Proficient in the design of below ground foul and surface water drainage using Microdrainage software.
* Good knowledge of CIRIA 753 (The SUDS Manual), Sewers for Adoption and other relevant British Standards and Eurocodes with respect to civils design and specification.
* Experience in design and specification of external works including site, earthworks and below ground utilities layouts and levels.
* Eligibility to pass criteria for security clearance required to work on sensitive projects.
* Good knowledge in the use of Autodesk AutoCAD and Civil 3D for site, earthworks and utilities modelling and layout and levels drawings.
* Working knowledge BIM software including Autodesk Navisworks.
* Knowledge of CDM regulations.
* Familiarity with the Design Manual for Roads & Bridges volumes.
* Knowledge of current UK technical standards/ publications and legislation requirements.
* Knowledge of standard details and solutions, and compliance.

**Desirable*** Experience of delivering multi-disciplinary projects in several sectors that BakerHicks operates in.
* Experience of contributing to bids, proposals and tender submissions.
* Understanding of commercial elements of projects.
* Any experience in the design and specification of industrial process drainage.
* Any experience in the design of above ground roof drainage.
* Security clearance obtained.
* Full clean UK driving license.
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