



Graduate Consultant – Research and Development Design Engineer (CFD modelling) - 2022

We at Hilson Moran, are a building consultancy working on a wide range of projects from a Serbian football stadium, to Royal Mail Sorting offices. We have worked with architects to put living gardens in high-rise office developments at 20 Fenchurch Street, and always look to work on projects that prioritise people, climate and reducing CO₂ emissions.

We are seeking to employ Graduate Consultants and Design Engineers on a permanent basis for our London, Farnborough, and Manchester offices in the following disciplines. We also have opportunities for Summer Placements / Internships in 2022.

Building Services Engineering – Mechanical, Electrical & Public Health design
Sustainability - energy, carbon and building certification
Fire Consultancy
Acoustics
Environmental & Infrastructure
Research & Innovation – CFD and coding

The Role

As a graduate or trainee you are invited to become a member of our mentor scheme, we encourage your development not only through your work but with training opportunities. We encourage everyone to get involve, be inspired, challenge how we work, impact the world and our future climate by the projects we are involved in. You will get to work on a variety projects from inception to completion, helping us to meet the environmental aspirations of our clients, whilst liaising with other members of the team

- Opportunities to work on international projects, and award winning projects in the UK

- Carrying out various technical outputs (digital models, drawings, reports, sketches and specifications)
- Assist in the preparation of conceptual designs
- Assisting with planning applications, energy modelling, and whole life carbon assessments
- Preparation of detailed designs and calculations to the relevant Codes, Standards and design guidance using relevant software packages.
- Contribution to the production of technical reports.
- Design calculations and analysis using 2D and 3D software packages.
- Responding to client requests for information.
- Liaising with other disciplines across the offices.
- Talking with team members both internally and externally

We are seeking people with skills, knowledge and interest in the below areas. It is not expected that as graduate you would have knowledge in all of these subjects but an appreciation in most would be an advantage.

- Data analytical skills
- Have the ability and desire to work in a team environment
- An interest in working in and improving our Built Environment
- A desire to work constructively in a team, finding holistic building design solutions
- Experience of working with energy compliance methods and tools (such Dynamic Thermal Modelling)
- Experience with CFD (wind modelling, internal thermal comfort, fire)
- SAP, SBEM, ESOS
- Are computer literate, ideally with knowledge of BIM and CAD
- Experience of Rhino, Grasshopper or similar software packages
- Coding or programming skills in languages such as VBA, Visual Studio, Python, C+ amongst other
- Have experience of working within a similar role (if you have been previously employed in the industry)
- Have an understanding of the CDM Regulations and designers' responsibilities.

Qualifications and Skills:

- Degree or Masters qualified in Environmental / Mechanical / Energy / Architectural engineering or other relevant subject in the built environment (or working towards for summer placements)
- Knowledge of evolving energy policy, future energy scenarios and zero carbon frameworks
- You will have the opportunity over time to assume greater levels of responsibility and autonomy as your professional skills develop. For permanent posts you will be mentored towards Chartership through CIBSE, IMechE or your chosen Institution through our accredited Training and Development Programme

Interested?

Please send your CV along with a covering letter outlining your suitability for the role to careers@hilsonmoran.com