

## **Career Summary:**

**Career Title: Senior Modeller**

**Location: Cardiff**

**Term: Permanent**

We are seeking a Senior Modeller to lead the delivery of flood risk and drainage modelling projects across a varied spectrum of client and project types. As WHS is a small, employee-owned business, you will have the opportunity to help shape the technical and business direction of the company, working closely with its Directors. This presents a unique challenge for individuals that have obtained skills and experience in hydraulic modelling and wish to apply, expand and diversify their skill set within a business environment that recognises and rewards individual contribution. In this role your line manager will be our Director and Head of Consultancy, Paul Blackman

<https://www.linkedin.com/in/paul-blackman-9a1a8324/>

The indicative pay band for this role is between £28,000 and £37,000, plus benefits that include 5% matched pension contributions, generous 40.5 day leave entitlement, tax-free bonus entitlement, flexible working and salary sacrifice childcare voucher scheme.

Wallingford HydroSolutions (WHS) is an employee-owned water and environmental consultancy, established by the Natural Environment Research Council in 2004. We are well known throughout the UK as the developer of the Flood Estimation Handbook software. Since our formation 14 years ago we have grown to provide a comprehensive range of consultancy services focussing on the water environment. We are passionate about using our robust analytical skills and national credibility to help our clients realise their development ambitions. Our consultancy work across the UK is primarily delivered through our Cardiff office whilst software product development is focused in our Wallingford office.

Our consultancy business continues to deliver sustained growth working with clients across a range of sectors including house building and commercial development, renewables, power and transport infrastructure and regulatory agencies.

The successful candidate will have a good first degree (upper second or higher) in a numerate discipline. A relevant postgraduate qualification would be advantageous, but not essential. You will have chartered or near-chartered status with CIWEM or ICE.

Your objectives for the first year will include the following:

### **Technical Objectives**

- Supervise and provide technical direction to consultants to deliver the required modelling outputs and reporting to the satisfaction of our clients. Our most common fluvial modelling software tools include Tuflow, Flood Modeller, HecRas, WINFAP, ReFH2, along with drainage and coastal modelling software. This role will focus on the delivery of fluvial and drainage modelling with an emphasis on fluvial, but with the potential to diversify into other technical areas.

- Liaise with our clients to ensure a full understanding of the problem and devise a technical strategy for resolution of the problem with defined project deliverables and timeframes.
- Responsible for the technical review of modelling, GIS and reporting work to ensure good quality outputs to the satisfaction of the client.
- Identify opportunities to improve on technical and business processes and implement process improvements, for example in coding improved modelling tools or improvements to QA/QC processes.
- Identify opportunities to develop our technical/software capability and diversify our services and products.
- Guide and direct consultants on the use of GIS and CAD tools to manipulate mapping and model outputs to interpret and present data in reports. We usually use QGIS and AutoCad to manipulate model inputs and outputs.
- Be first author on larger, more complex client reports and review smaller client reports and implement quality assurance processes. These will include flood risk assessments, technical modelling reports and environmental assessments.
- Manage your training to a personal development plan, agreed with your line manager. This will include a mix of external and on-the-job training.
- Create a good working rapport with other team members, communicating effectively internally and externally to achieve the best possible outcomes.
- Using your knowledge of the regulatory framework that controls activity around the water environment, you will ensure compliance with relevant regulatory processes, under the guidance of a Technical Director.

### **Project Management & Work Winning Objectives**

- Manage your workload and those of your team, usually balancing the requirements of up to 10 projects simultaneously, to achieve the required quality to budget and programme.
- Undertake the Project Manager role for projects up to £50k in value.
- Bid leader for proposals up to £50k in value, under the guidance of a Technical Director.
- Undertake marketing activities to support the delivery of the marketing plan, under the guidance of the Director and principal consultant.

### **Opportunities Beyond Year One**

If good performance is achieved, you will take on increasing responsibility through and beyond Year One. You will have the opportunity to further develop your skills and, depending on your strengths and areas of interest, you will:

- Become a line manager for one or more people in the team, managing staff wellbeing, training and performance, with the support of a Technical Director.
- Participate in the technical delivery of wider consultancy services, such as outline design, economic assessment and costings for flood defence schemes, water quality and LowFlows assessments.
- Identify opportunities for software development projects through close liaison with our Wallingford-based software development team.
- Be responsible for a client sector of the tactical marketing plan and business development.

## **Working with WHS:**

WHS offers the following benefits:

- As a small, employee-owned business we provide a personable and dynamic work environment that rewards achievement and provides opportunity to work across other specialisms.
- WHS has a generous 40.5 day holiday allowance. Staff may permanently trade in up to 10 days leave for increased salary.
- We operate a flexible working hours system.
- We have structured pay scales, and formal criteria for being promoted between grades. Thus the potential for career progression is clear for all staff.
- As an employee-owned trust, we provide tax-free bonuses to all staff and operate a separate performance-related bonus scheme.
- We offer a contributory company pension scheme, with employer matched contributions of up to 5% of salary.
- We operate salary sacrifice childcare voucher scheme to assist with tax efficient childcare.
- As a small company, there is significant opportunity for employees to improve the business, be that through systems improvement or identifying new work opportunities. Equally, there is high visibility to the WHS senior management team of the contributions made by employees, which are appropriately rewarded through profit sharing and career progression opportunities.
- We have a formal appraisal system matched by personal development plans and each member of staff has access to 5 days every year for targeted training and professional development.
- We provide financial support for our staff in gaining professional membership of the appropriate body.
- Working closely between our Wallingford, Cardiff and Perth offices, project teams generally utilise staff from multiple offices providing the opportunity to work with colleagues on a wide range of projects.
- The Cardiff office is located adjacent to Bute Park & Arboretum, 10 minutes' walk from the shopping centre of Cardiff and close to public transport links. The River Taff cycle path runs close to our office meaning that staff have the option to use public transport, cycle or walk.
- Through our affiliation with the Centre for Ecology and Hydrology there is also the direct opportunity to interact with leading scientists within their fields and to contribute to the further development of models and methods deployed within our software products.
- A good IT infrastructure is essential to our operations as project teams commonly operate out of several offices. We have shared computing infrastructure across all offices and access to high speed GIS and modelling. We reserve a computing budget for each staff member to ensure that all staff have access to the latest modelling and software tools required for their work.