

Your opportunity to lead on updating the CIWEM Urban Drainage Group (UDG) Integrated Urban Drainage Modelling Guide (IUDMG)

17 May 2019

CIWEM Urban Drainage Group

The CIWEM Urban Drainage Group (UDG) sustains the excellence of people who are professionally engaged in urban drainage management now and for future generations. It continues the work of WaPUG (Wastewater Planners User Group) which was established in 1984. The aims and objectives of the Urban Drainage Group are aligned with CIWEM's Royal Charter. They are to:

- Advance the science and practice of urban drainage management for the public benefit.
- Promote education, training, study and research in urban drainage management and to publish the results of such research.
- Establish and maintain appropriate standards of competence for urban drainage management professionals

Integrated Urban Drainage Modelling Guide

In 2009 CIWEM UDG (then known as WaPUG) prepared and published an [Integrated Urban Drainage Modelling Guide](#) (IUDMG). The purpose of this guide was to inform practitioners on the then emerging technologies for advanced flood modelling in urban areas, notably the use of linked 1d-2d models and the integration of models representing sewers, water courses and the urban surface. This was important at the time because of interest in the analysis of this type of flooding and the commissioning of Surface Water Management Plans. The guide's target audience was those commissioning or undertaking flood analysis projects for water companies, local authorities and bodies such as SEPA or the Environment Agency throughout the UK.

In the subsequent decade, technologies and good practice have moved on considerably. In addition, new Drainage and Wastewater Management Plans (DWMP) require an enhanced level of partnership working to address flood risks of this nature and develop programmes for improved urban resilience. It is now time to refresh the IUDMG for the challenges and opportunities of the 2020s. The guidance must help modelers, clients and stakeholders select and apply appropriate modelling approaches for assessing flood risk and developing adaptation measures.

The opportunity

The opportunity is for a contractor to lead on the management, authoring and delivery of a refreshed guide, working in partnership with a Project Steering Group. CIWEM is partnering with the Environment Agency to make available a budget of £30,000 subject to satisfactory completion of the project.

The objective is to develop updated integrated urban drainage modelling guidance which will support clients and suppliers scope, deliver and understand appropriate integrated urban drainage flood risk management modelling projects.

The contractor is obliged to make use of the wider CIWEM UDG community through two industry workshops to help develop, test and refine the revised guidance. CIWEM will contribute through provision of a project executive, project steering group and workshop venues. The project steering group will include representation from at least the Environment Agency, CIWEM UDG, CIWEM Rivers and Coastal Group (RCG) a water utility and a lead local flood authority. The published guidance will be free of charge for public benefit and agnostic on software products or services. It will be written in accordance with the Environment Agency's Plain English standards.

The timetable is to commence the project in July 2019 and complete in March 2020.

Requirements for expression of interest

CIWEM has not developed a detailed scope for this work. Contractors expressing an interest in taking the lead are required to share their vision of how they will critique the current guidance, work with industry workshops to identify good practice and prepare new guidance which is amenable to straightforward future updating as technologies and good practices evolve.

For planning purposes candidate contractors should assume that there will be two day-long workshops (at approximately 10% and 80% completion) with CIWEM convened industry experts. In addition, there will be a 90-minute workshop opportunity at the CIWEM UDG annual conference in November. Contractors should plan for three project steering group conference calls involving the contractor and project steering group.

We wish to understand the qualifications and experience of the individuals who will be involved and how much time they will devote to the project. There is a maximum fee of £30,000 available, so we wish to understand who can deliver best value for this sum. Value may also be demonstrated by contractors providing their own financial or in-kind contribution to the project.

Expressions of interest will be reviewed by CIWEM and the Environment Agency with the purpose of selecting a preferred supplier with which to negotiate a more detailed scope of work. Our aim is to keep this selection process transparent and short, with minimum burden on contractors.

Please provide information enabling CIWEM to evaluate your offer in not more than 5 sides of A4, including pen portrait length biographical details of key staff. Evaluation will be against the following weighted criteria:

1. Approach – how you have understood and plan to meet the objectives (50%)
2. Key staff – the skills, experience and timed inputs of key staff. (40%)
3. Value – the value of contractor inputs including any financial or in-kind support (10%)

Each criterion will be allocated a score 0-5, where 5 is excellent and 0 is poor. The assessment will be made by a team from CIWEM HQ, CIWEM Urban Drainage Group and the Environment Agency.

If you are intended to submit a response, please indicate this to heather.gardner@ciwem.org by 24th May so that we can share any further items of clarification with all bidders. Please email any questions to heather.gardner@ciwem.org or telephone Elliot Gill (UDG Chair) on +44 7738 349 842 for a discussion.

The deadline for submission to heather.gardner@ciwem.org is 5pm on 14 June 2019.

Terms and conditions

Our intention is to use the same Terms and Conditions that CIWEM used when entering into contract to develop the recent Code of Practice for Urban Drainage Modelling. Please request a copy of these terms and conditions from heather.gardner@ciwem.org