



**UNIVERSITY OF LEEDS**

## **CANDIDATE BRIEF**

**Research Fellow in Urban Sanitation (Managing Complex Decision Making), Faculty of Engineering**



**Salary: Grade 7 (£32,004 – £38,183 p.a.)**

**Reference: ENGCV1051**

**Closing date: 10 March 2017**

**Fixed term for up to 2 years, available from 1 March 2017 to 28 February 2019**

# Research Fellow in Urban Sanitation (managing complex decision making)

## School of Civil Engineering

**Are you an enthusiastic and experienced researcher in applied multi-criteria decision making with an interest in international development and sanitation? Are you looking for a new and exciting challenge as part of a world class public health engineering team? Do you want to design new approaches to sanitation which will change the lives of millions of people?**

As part of the £785,000 project “Cost and Climate” project, which is funded by the [Bill and Melinda Gates Foundation](#) and led by [Professor Barbara Evans](#), you will develop new approaches to sanitation system selection which use multi-criteria analysis to identify solutions to complex urban sanitation problems which optimise on functional requirements/ performance (in terms of management and public health outcomes); economics and financing; resilience under uncertain future climate conditions; contributions to greenhouse gas emissions; safety; ease of construction/ implementation and management; and project risks.

Holding a PhD (or close to completion) in Engineering Project Management, you will join a multi-disciplinary research team to develop new knowledge and new approaches to decision making related to optimising urban sanitation interventions in rapidly-growing poor cities in the global south. This role will involve travel in Africa and South Asia which is likely to involve up to four periods out of the UK in each year, each for between two to six weeks.

### What does the role entail?

As Research Fellow your main duties will include:

- Developing a set of multi-criteria decision-making tools and suitable user interface to help policymakers to take reasoned decisions about urban sanitation without being technical experts;
- Participating in at least one pilot-study to test and refine the results of the research project as a whole and the tools in particular;
- Communicating or presenting research results through publication or other recognised forms of output;



- Preparing papers for publication in leading international journals and independently writing reports;
- Maintaining your own continuing professional development and acting as a mentor to less experienced colleagues as appropriate;
- For a suitably qualified candidate we can consider a contribution to teaching as a development opportunity.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

## What will you bring to the role?

As Research Fellow you will have:

- A PhD (or shortly to be awarded) in Engineering Project Management, and a Bachelors or Masters degree in Civil Engineering or a related discipline;
- Experience in the design and implementation of multi-criteria decision-making in the field of infrastructure;
- Knowledge of complex institutional contexts where decision making incentives may be impacted by a range of technical and non-technical factors;
- Willingness to undertake extensive travel in Africa and South Asia;
- Excellent interpersonal skills suitable for leading multi-disciplinary interventions in the field bringing together actors from a range of disciplines and sectors including government, local government, civil society, professional bodies and community representatives;
- A proven track record of peer-reviewed publications in high impact factor journals;
- Good time management and planning skills, with the ability to meet tight deadlines, manage competing demands, and work effectively under pressure;
- Excellent written and verbal communication skills including presentation skills;
- A proven ability to work well both individually and in a team, showing initiative and creativity;
- A strong commitment to your own continuous professional development.



You may also have:

- Proven experience of the ability to interact with PhD students, Masters students and undergraduates in ways that will enhance the student experience in the School;
- Ability to contribute to and develop interdisciplinary collaborative research projects in a broad range of development contexts, for example as evidenced by prior experience of working on interdisciplinary projects.

## How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information. Applications should be submitted by 23.59 (UK time) on the **10 March 2017**.

## Contact information

To explore the post further or for any queries you may have, please contact:

**Professor Barbara Evans**, Deputy Director of the [Institute of Public Health and Environmental Engineering](#), School of Civil Engineering and Co-director of the [Centre for Global Development](#).

Tel: +44 (0) 113 343 1990

Email: [b.e.evans@leeds.ac.uk](mailto:b.e.evans@leeds.ac.uk)

## Additional information

### Faculty and School Information

Further information is available on the research and teaching activities of the [Faculty of Engineering](#) and the [School of Civil Engineering](#).

### Working at Leeds

You can find out more about our generous benefits package and more about what it is like to work at the University and live in the Leeds area in our [Working at Leeds](#) information.



## Candidates with disabilities

Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found in our [Accessibility](#) information or by getting in touch with us at [disclosure@leeds.ac.uk](mailto:disclosure@leeds.ac.uk).

## Criminal record information

A criminal record check is not required for this position, however, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our [Criminal Records policy](#). You can find out more about required checks and declarations in our [Criminal Records information](#).

