

# Job Profile

## Job Description

Job Details		
Job Title:	Professor of Biostatistics and Clinical Trials	
School/Dept/Institute & Centre:	Centre for Cancer Prevention, WIPM, SMD	
Reports to:	Head of Centre	
Grade:	Non-clinical Professor	Full Time
Appointment period:	Permanent	
Current Location:	Charterhouse Square	

### Job Context

The Centre for Cancer Prevention is part of the Wolfson Institute of Preventive Medicine, which has a focus on academic discipline, research, the translation of research into public health strategies and their practical implementation – all dedicated to the reduction of disease and disability.

The Centre for Cancer Prevention is at the forefront of research internationally into the prevention and control of cancer. We have particularly active research programmes in breast, cervical, colorectal and prostate cancer prevention, cancer screening and statistical methods for clinical trials and epidemiology.

Our objectives are:

- To facilitate development of new cancer screening and prevention approaches and to fully evaluate currently available methods
- To apply new discoveries in basic cancer biology to cancer screening and prevention

### Job Purpose

To carry out and direct research in cancer epidemiology, notably in areas pertaining to the prevention of cancer or slowing or preventing its progression by early detection and treatment.

To have a leadership role in the Barts Clinical Trials Unit.

To demonstrate significant intellectual leadership by:

- Making significant research contributions to the field and/or profession internationally and nationally, including developing and evaluating new statistical methodology where required
- Making innovations in key aspects of teaching and learning
- Contributing to the administration of these and other College activities

A Professor will be expected to meet the University of London standards for the conferment of the title of Professor. In particular, to have national and international standing in the relevant subject or profession, as established by outstanding contribution to its advancement through publications, creative work or other appropriate forms of scholarship, and through teaching and administration.

### Main Duties & Responsibilities

#### Research

- Obtain new knowledge by theoretical and/or practical methods, direct and engage actively in research at a high level in a particular subject area both internally and externally.
- Ensure appropriate dissemination of research to an international audience by scholarly publication or other outputs appropriate to the relevant academic discipline.
- Monitor research findings with a view to commercial exploitation, and to inform the Centre Lead and Head of Innovation and Enterprise of any appropriate novel research outcomes.
- Provide major research leadership in the field and in the College, which contributes to the overall medium to long-term research strategy of the Centre.
- Develop national and international research links.
- Use expertise, experience and judgement to decide how to design and execute research work.
- Demonstrate intellectual leadership and achieve high visibility in the field, at national and international level.
- Make long, medium and short term planning of own research goals and research related activity, such as to decide which funding body to approach and when. Make decisions on the appointment of research staff and students.
- Collaborate with colleagues in research activities, where appropriate, both internally within Queen Mary and externally with other Higher Education Institutes and/or non-academic organisations.
- Prepare and present papers and other research outputs relating to the field in national and international seminars, conferences, workshops and other events.
- Submit, singly or jointly with colleagues, proposals to funding bodies (including research councils, government departments, private sector and public sector collaborators) for the financial support of research and manage those grants as appropriate.
- Responsible for obtaining income and managing own research funds typically = £200,000 per annum, including funding for:
  - 1 PhD student
  - 3 Research Assistants
- Support, supervise and direct others as necessary (such as junior statisticians, research assistants, postdoctoral researchers and support staff) to maximise the research activity and outputs.
- Interact with research collaborators, in order to achieve research objectives and generate outputs (e.g. publications, presentations).
- Establish links with academic-related organisations, such as publishers, journals, research councils, charities and other HEIs, in order to:
  - Edit and review scholarly journals
  - Act as member of peer review panels and colleges
  - Collaborate with external colleagues on research projects, in the UK and abroad

### Main Duties & Responsibilities

- Administer research networks
- Organise collaborative conferences

### Teaching

- Organise and undertake teaching in Centre as agreed with the Director of the Institute in a variety of combinations; this includes providing lectures, classes, and seminars.
- Set and mark examinations and coursework as appropriate, including attending examiners' meetings.
- Contribute to innovations in teaching and learning through the development of teaching materials, of forms of pedagogy, or of appropriate teaching collaborations
- Use experience and knowledge (and an understanding of students' backgrounds and abilities) to design, deliver and assess teaching and learning.
- Long-term planning of undergraduate teaching programmes in the Institute in consultation with other academic staff.
- Support, teach, advise and facilitate the learning of students in formal teaching sessions (e.g. lectures, seminars, fieldwork, tutorials, and one-to-one supervision) to help them achieve their best potential. Oral instruction, discussion, advice and response, written notes, questions, comments and feedback in a variety of media. Both in term time, and to a more limited extent, out of term time. Capacity to act as personal tutor to students.
- Supervise teaching assistants and other teaching support staff as may be required.
- Take pastoral responsibility for students in the Centre, as assigned and to support students in key aspects of personal development planning and the acquisition of relevant skills.
- Liaise with academic colleagues over collaborative teaching, orally and in writing, in order to ensure efficient and successful course delivery as appropriate.
- Liaise with, instruct and support part-time staff who contribute to Institute teaching programmes through written communication, formal and informal oral discussions and appraisal. Both preceding and during term time.
- Contribute to groups such as Staff Student Liaison Committee, or Teaching and Learning Committee.

### Management and leadership

- Take a leading role in Centre administration at a senior level.
- To have a leadership role in the Barts Clinical Trials Unit, providing oversight and direction, including cancer prevention trials and observational studies and supervising junior statisticians analysing trial data.
- Comply with relevant College policies and regulations regarding financial matters, harassment, equal opportunities, public interest disclosure, health and safety, intellectual property, data protection or any other rules, regulations or codes binding on the member of staff.
- Participate in the College Appraisal Scheme (QMPAS) and demonstrate a commitment to continuing professional development.

- Contribute towards establishing strategies for research, teaching and knowledge transfer in the Centre.
- Contribute towards the planning of developments in the field.
- Attend Centre meetings as required.
- Represent the Centre on relevant College-wide committees and College boards, as agreed with the Centre Lead.
- Liaise with other administrative departments in the College in order to support effective research, (e.g. Research Grants Administration and the Joint Research Office), teaching (e.g. Information Services, Learning Disabilities Support Group or the Registry), and knowledge transfer (e.g. Innovation and Enterprise regarding Intellectual Property protection, exploitation and other Knowledge Transfer).
- Develop relationships with external organisations to maximise opportunities for Knowledge Transfer, for example:
  - Industrial research
  - External teaching collaborations
  - Student placements with external organisations
  - Consultancy or policy advice given to business, professional bodies, government or regulatory bodies, not-for-profit organisations, or other users of research.

**The above list of responsibilities is not exhaustive and the jobholder may be required to undertake other duties commensurate with the level of the role, as reasonably requested by their line manager.**

**This job description sets out the duties of the post at the time it was drawn up. Such duties may vary from time to time without changing the general character of the duties or level of the responsibility entailed. Such variations are a common occurrence and cannot in themselves justify a reconsideration of the grading of the post.**

This table lists the essential and desirable requirements needed in order to perform the job effectively. Candidates will be shortlisted based on the extent to which they meet these requirements.

Requirements		Essential / Desirable	How Assessed
<b>Qualifications</b>	PhD in statistics, epidemiology or related discipline	E	A
	Undergraduate degree	E	A
	Postgraduate degree <i>and/or</i> relevant professional qualification <i>and/or</i> equivalent professional experience	E	A
<b>Knowledge, Skills and Experience</b>	Demonstrative experience of conducting and supervising original research that is competitive at an international level with an excellent publication record	E	A/I
	Experience in presenting research at international conferences, writing research papers that are published in international journals and/or other forms of international research dissemination	E	A/I
	Experience of obtaining substantial funding to support research	E	A/I
	Experience of obtaining funding or support from industry	E	A/I
	Experience of teaching and assessment in higher education	E	A/I
	Experience of supervising and mentoring research students at all levels	E	A/I
	Experience in representing the research field to policy makers	D	A/I
	Experience of clinical trial design and analysis	E	A/I
	Proven leadership and management skills	E	A/I
	To be an internationally recognised expert on one or more aspects of cancer screening, cancer epidemiology and medical statistics	E	A/I
	Knowledge of how to provide academic leadership in research area	E	A/I
	Proven ability to lead a team	E	A/I
	Knowledge of legislation and good practice with respect to Clinical Governance, Good Clinical Practice and Research Ethics Committees	E	A/I
	Knowledge of relevant nationally and internationally available data sources (e.g. flagging with NHS Digital, Hospital Episodes Statistics, Globocan etc)	D	A/I
Experience of clinical trials methodology research	D	A/I	

**Essential/Desirable:**

E = Essential: Requirements without which the job could not be done.

D = Desirable: Requirements that would enable the candidate to perform the job well.

**How Assessed:**

A = Application

I = Interview

OM = Other Means (e.g. presentation, test, etc.)