UNIVERSITY OF WARWICK

Job Description

Job title	Research Fellow in Quantitative Health Sciences
Department	WMS
Grade	6

Job purpose (a brief summary of the role)	This is an opportunity to play a lead role in the Creating Healthy Jobs project. Creating Healthy Jobs was one of four large projects funded by the National Institute for Health Research – Work and Health Programme (click here). The post holder will take a lead role, under the supervision of co-investigator, Dr Carla Toro, in conducting advanced data analysis using datasets available in the public domain or secure data environments to reveal new knowledge on inequalities in job-related ill health by occupation and sociodemographic or socioeconomic factors. Variations by sector and region will also be revealed through subgroup analyses. The post holder will have a PhD or equivalent in epidemiology, economics, data science, public health, occupational health, or a related quantitative discipline and proven experience of working with large complex datasets and applying advanced data analysis methods. You will have effective communication skills, both orally and in written format and be able to communicate effectively within multidisciplinary teams and with multiple non-academic stakeholders in occupational health and wellbeing.
Duties and responsibilities	1) Work closely with the research team at Warwick Medical School and liaise with the wider research team and non-academic stakeholder partners. 2) Identify the datasets, define the research questions and write a protocol and data analysis plan that will enable meeting the objectives of the research. 3) Obtain and store data according to ethical requirements/ GDRP / secure data environments. 4) Carry out quantitative analysis to reveal new knowledge on inequalities in job-related ill health in England by occupation and sociodemographic or socioeconomic factors. Where possible, conduct subgroup analyses to reveal variations by sector and region. 5) Work independently, manage his/her own workload and meet deadlines. 6) Liaise with academic and non-academic teams participating in the study. 7) Write reports and summaries for different end-users. 8) Develop skills and competencies that assist in the delivery of current duties, such as appropriate training courses or updates in accordance with mandatory training requirements and Personal Development Plans.

Person Specification

The Person Specification focuses on the essential and desirable knowledge, skills, experience and qualifications required to undertake the role effectively. This is measured by (a) Application Form, (b) Test/Exercise, (c) Interview, (d) Presentation.

Essential Criterion No.	Essential Criterion Description	Measured by
E1	PhD in epidemiology, economics, data science, public health, occupational health, or a related quantitative discipline.	A & C
E2	Proven experience of working with large complex datasets and applying advanced data analysis methods.	A,C & D
E3	Track record of applying advanced statistical techniques, such as, multilevel/mixed effects models, longitudinal methods, survival analysis, causal inference approaches.	A,C & D
E4	Demonstrable skills in at least one major statistical programming environment (e.g., R, Stata, Python, or equivalent).	A,C & D
E5	Effective communication skills, both orally and in written format and the ability to communicate research effectively to different audiences.	A,C & D
E6	Ability to liaise with multidisciplinary research team members and non-academic, such as policymakers and other stakeholders.	A,C & D
E7	Excellent organisational and time management skills.	A,C & D
E8	Strong awareness of maintenance of research integrity and data security.	A & D
E9	At least one published or in-press article demonstrating lead role in applying advanced data analysis methods with large complex datasets.	A & C

Desirable Criterion No.	Desirable Criterion Description	*Measured by*
D1	Proven experience of engaging with multiple non-academic stakeholders in the area of occupational health research.	A & C
D2	Proven experience of communicating complex research findings to non-academic audiences including policymakers and the lay public.	A & C