



Statistician – Health Economics York Health Economics Consortium

Closing date: Friday 20th November at 5pm

Interview date: Tuesday 8th December held via teleconference



INTRODUCTION

We are recruiting a Statistician to develop and critique statistical analyses on a wide range of projects across our company. The successful candidate would be part of our expanding statistical team but would also have the opportunity to work with colleagues in the health economic modelling (HEM), review and information services (RIS), patient reported outcomes (PRO), and public health / NHS teams. Example projects undertaken by statisticians at YHEC include formal analysis of patient level data from either clinical trials or real-world data sources, development of statistical analysis plans, critiquing analyses done by other consultancies, development of utility estimates to be used in cost-effectiveness models. Our statisticians also develop bespoke interactive interfaces for use in economic models and other statistical tools.

We are a health economics contract research and consulting company owned by, and based at, the University of York. YHEC provides consultancy and research to a wide range of public and private sector bodies. Our clients include:

- Government bodies, such as the Department of Health
- NICE and the SMC
- Global pharmaceutical manufacturers
- Medical device and biotech companies

We have a team of 51 staff and we hold the Investors in People accreditation with a composite score of 780 against an industry benchmark of 723 (top 20% of organisations). We want staff to enjoy our flexible, inclusive and friendly working environment. Our employee well-being programme is based on suggestions from staff and includes lunchtime walks, sporting activities and charity fundraising events. Our staff nominate a charity on an annual basis and undertake fundraising throughout the year. We also have a social committee who organise events on a regular basis.

YHEC staff are currently working remotely and we anticipate this continuing for at least the next six months. As a subsidiary company of the University of York our staff have full access to the range of facilities offered by the University and we actively encourage staff to engage with other research departments. The breadth of our research portfolio makes YHEC a stimulating environment to work in, providing opportunities to work with a wide range of clients using multiple research methods. The pace of work is fast moving and will appeal to people who enjoy working on multiple projects.

Our HEM team undertakes research to quantify the cost-effectiveness of a range of health technologies (pharmaceuticals, medical devices, digital health) for a range of large and small clients within the public, private and charity sectors. We work across a broad range of therapy areas including orphan and ultra-orphan indications developing budget impact models, and undertaking statistical analyses of individual patient-level data in order to parameterise our economic models. We also work closely with our clients from all sectors in preparing their submission dossiers to agencies such as NICE and we actively look to publish our work in peer-reviewed journals.

Our RIS team produces at least twenty reviews each year for a range of clients, including pharmaceutical companies, MedTech developers and public sector organisations such as NICE and NHS England. These reviews support a number of different needs from health technology assessment submissions, internal company assessments and scoping reviews for new areas of research, to name a few. Formal evidence synthesis, and in particular network meta-analysis (NMAs) projects are run by the RIS group and we actively encourage our statisticians to contribute to these tasks

Our NHS Consulting / public health work stream has grown in the last five years as clients seek to demonstrate the value of products when real world pressures and incentives are applied, which has often included working on complex system evaluations. In collaboration with the Centre for Health Economics (CHE) we are the Economic and Methodological Unit (EMU) for the NICE Centre for Guidelines (CfG). As part of our work within EMU we produce the economic analyses and associated economic models to NICE specifications to aid the Public Health Advisory Committees in guideline development. We also carry out projects to address methodological issues identified by the CfG.

We want to help you to further develop your professional career at YHEC and we actively encourage internal and external training and development. Further details of our work are available at www.yhec.co.uk and photos of recent charity events and social activities are on our social media accounts.

JOB DESCRIPTION & PERSONAL SPECIFICATION

At a glance

Salary	£25,000 to £38,000 plus bonus
Hours of work	37.5 hours per week
Based at	York Science Park but currently remote working

Main Purpose of the Job

The primary purpose of the role is to develop and critique statistical analyses on a wide range of projects. The candidate will be expected to work in project teams alongside other research staff and Project Directors.

Candidates may be required, on occasion, to travel for business purposes (e.g. to client meetings or conferences).

Main Duties

The main responsibilities of a Statistician within YHEC are:

- After an initial training and development period, lead the development of statistical analyses and take responsibility for specific elements within larger projects under the supervision of senior staff
- Preparation of study protocols, including statistical analysis plans, specifying table shells and figures as required
- Prepare datasets for analysis in line with the statistical analysis plans and to undertake analyses as detailed in an analysis plan
- To carry out quality assurance review of statistical models developed both within the company and for external clients
- Attend meetings with a range of clients
- Report preparation and presentation
- Client liaison within a project, with the support and guidance of senior colleagues
- Occasionally provide supervision of other staff working on the project team

Essential qualifications, knowledge, skills and attributes are:

- A post-graduate degree in medical statistics, statistics, epidemiology, health economics, econometrics, mathematics, or a similar related quantitative discipline

- Ability to communicate new and complex information effectively to a non-technical audience, both verbally and in writing
- A high level of attention to detail and accuracy and a commitment to high quality
- Highly proficient in using Microsoft Excel
- Experience in using statistical software packages (R, STATA, SAS, WinBUGS)
- Experience of working with patient level data or large individual level data sets
- Ability to implement survival analysis, generalised linear models, multilevel models and to draw inference between parameters and clinical endpoints
- Ability to lead and/or take responsibility for a small research project or identified parts of a large project
- Ability to plan and prioritise own work in order to meet deadlines
- Enthusiasm and a commitment to team working

Desirable qualifications, knowledge, skills and attributes are:

- Experience of undertaking statistical analyses within a consultancy, NHS or industry (pharmaceuticals or devices) environment
- Experience of developing interactive dashboards
- An understanding of conducting NMAs or population adjusted indirect comparisons
- Familiarity with the issues related to analysing real world evidence and in particular datasets used within the UK NHS (general activity datasets, HES, CPRD etc.)

Terms of Employment

Posts at YHEC are permanent and subject to regular review of performance. Staff are appointed for a trial period of six months, following which employment will be confirmed, subject to successful performance.

Salary

YHEC is able to offer a competitive salary and has conventional commercial flexibility in annual salary reviews. The basic salary will be in the range £25,000 to £38,000 subject to qualifications and experience. In addition, YHEC has a profit sharing scheme. The post holder will be eligible to join the YHEC Group Pension Scheme. Membership of a defined contribution or defined benefit pension scheme is available subject to eligibility criteria being satisfied. Annual leave entitlement will be 30 days per year, plus bank holidays.



THE UNIVERSITY

YHEC is a subsidiary company of The University of York and enjoys close links with academic departments. The University of York is a member of the prestigious Russell Group and has established an international reputation for academic excellence. The University of York is one of the most successful research universities in the UK and attracts over £60m a year of funding from research alone. Of 154 universities that took part in the Research Excellence Framework (REF) in 2014, The University of York ranked 14th overall and 10th for the impact of research. The University of York's vision is to be a world leader in the creation of knowledge through fundamental and applied research, the sharing of knowledge by teaching students from varied backgrounds and the application of knowledge for the health, prosperity and well-being of people and society.

Attractive enjoyable workplace: Centred around the picturesque village of Heslington on the edge of the city of York, the University of York and YHEC are set in an attractive landscaped campus. York enjoys a safe, friendly atmosphere with facilities including bars, shops, theatres and concert halls all within easy walking distance. The University has undergone an unprecedented period of expansion and renewal since 2000. The self-contained campus offers a range of facilities including a sports centre, catering outlets, shops, a nursery, a doctor's surgery and banks.

The City of York: Internationally acclaimed for its rich heritage and historic architecture, York's bustling streets are filled with visitors from all over the world. Within its medieval walls you will find the iconic gothic Minster, Clifford's Tower and the Shambles – just a few of the many attractions. But York isn't just a great place to visit - it's also a great place to live and work. While nourishing a vibrant cosmopolitan atmosphere, York still maintains the friendly sense of community unique to a small city. Visit www.visitork.org for more information on the city of York.

HOW TO APPLY



The closing date for applications is **Friday 20th November at 5pm**

To apply please send:

1. A letter of application (1 page max)
The letter should include how you meet the requirements of the role.
2. A full CV
3. Details of two referees (names/position/email address).
We assume that we are free to approach referees at any stage unless you state otherwise. If you wish a referee or referees to be approached only with specific permission and / or if they were you are invited to interview. Please clearly specify this for each referee(s). Your referees should not be related to you and should include your present or most recent employer (or, if you are a student, your education establishment).
4. Please direct all applications to charlotte.anderson@york.ac.uk quoting reference number 2015 Confidential in the subject line. Please confirm in your letter that you **are eligible to live and work in the UK** as YHEC does not have a sponsorship licence.

Applications for part time will be considered and please note your preference in your letter of application. This post is covered by The Rehabilitation of Offenders Act 1974.

It is anticipated that interviews for the post will be held on **Tuesday 8th December** via zoom. Please advise us immediately if this date is likely to be inconvenient for you. Short-listed candidates will be asked to undertake a job-specific test as part of the interview process.

Informal enquiries are encouraged, to Joe Moss, Senior Statistician, joe.moss@york.ac.uk or Stuart Mealing, Associate Director, stuart.mealing@york.ac.uk