



JOB DESCRIPTION

Job Title:	Research Assistant
Department / Unit:	Department of Economics
Job type	Research
Grade:	6
Accountable to:	Professor of Economics
Accountable for:	Not Applicable
Purpose of the Post	
<p>The appointed candidate will be working with a team of researchers that includes Professor Dan Anderberg (RHUL) and Dr Greta Morando within a project funded by Université Paris-Dauphine Women and Science Chair, focusing on gender-differences in skill accumulation.</p>	
Key Tasks	
<p>To be responsible for setting up and organizing a major data resource – the Millennium Cohort Study – for current purposes.</p> <ul style="list-style-type: none"> • Data setup will need to be implemented in structured and fully documented way that will require advance planning and development. • A systematic variable labelling scheme will need to be developed and data dictionary supplied. • Establish the extent and quality of the survey data resource, using a range of statistical techniques to explore the dataset • Relevant measure will need to be documented for and winzoring applied as appropriate on continues variables. 	
<p>To establish a thorough understanding of the research frontier with respect to the estimation of dynamic human capital models and to construct Matlab/R code for implementation of multidimensional skills model</p> <ul style="list-style-type: none"> • Code will need to created, debugged and documented. • Using initiative and creativity to identify efficient methods for implementing the empirical estimation • Take a leading role in overcoming methodological problems that arise during the project lifespan, and keep the PI up-to-date with the project’s progress. • Identify any practical and technical issues that require to be resolved and suggest solutions. Identify any specific software modules for constructing the required specialized statistics. • Pilot, refine and optimise mathematical and computational methodologies with limited supervision from the PI 	

- Diagnose testing on simulated data will need to be prepared and shown to recover primitive parameters.
- Record results systematically, maintaining a permanent record of code versions and the data samples used.

To contribute to the preparation and presentation of findings of research activity to colleagues and at scientific meetings.

- Results will be disseminated in scientific meetings (conference abstracts will need to be written and submitted from time to time).
- The post-holder will have an opportunity to present findings at scientific meetings.

To contribute to the overall activities of the research team and the department as appropriate.

- The post-holder will be required to contribute to scientific discussion in regular team meetings and in seminars and workshops

To engage with staff within the Centre for the Economics of the Household, contributing to the induction of new research students.

- Sharing of coding and data handling expertise with new incoming junior researchers.

Other Duties

The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the College. The post holder will be expected to undertake other duties as appropriate and as requested by his/her manager.

The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.

Internal and external relationships

The following list is not exhaustive but the post holder will be required to liaise with: Professor Dan Anderberg in the role as Principal Investigator and with Dr Greta Morando as project team member and, where relevant, industrial or professional contacts