



Job Description and Person Specification

Summary

Job title:	Postdoctoral Research Assistant in Neuroscience
Area:	Faculty of Arts and Sciences
Reference:	EHR0138-0624-R
Grade and Salary:	£33,966 - £37,099 per annum. Grade 7, Points 27 - 30
Contract Type:	Fixed Term for 18 Months
Hours:	Full Time (37 hours per week)
Location:	Campus based role. Ormskirk, Lancashire, L39 4QP
Accountable to:	Dr Dorothy Tse (Principal Investigator)
Reporting to:	Research Project Lead

About the Role

You will join the Tse Memory Lab at the Department of Psychology, funded by the Academy of Medical Sciences, to design and conduct research on spatial navigation memory in both healthy aging and early onset dementia groups. We are seeking a dynamic and skilled Postdoctoral Researcher with a strong background in electrophysiology, especially EEG, to conduct novel experiments that enhance our understanding of human behavioural mechanisms.

You will design and conduct advanced behavioural and EEG experiments to investigate memory and spatial navigation, analyse electrophysiological data utilizing different methods such as Independent Component Analysis (ICA). You will also develop and program experimental tasks using Unity or comparable software to test theories and models in spatial navigation.

You will hold a PhD in Neuroscience, Experimental/Cognitive Psychology, or a related field, completed or nearing completion by the start date and also hold in-depth knowledge of EEG and strong programming skills, particularly in environments used for scientific research.

At the Tse Memory Lab, we are committed to creating a diverse and inclusive work environment that promotes scientific excellence. We strive to attract, retain, and develop the best talent from diverse backgrounds to foster an innovative and collaborative scientific community.

Interested candidates can find more details about our lab and ongoing research at Dorothy Tse Lab. For any informal inquiries or further information about the position, please feel free to contact Dr Dorothy Tse Reader in Psychology at tsed@Edgehill.ac.uk.

Specific duties and responsibilities

The post holder will be expected to:

1. Design and conduct human behavioral experiments and EEG studies to explore aspects of spatial navigation memory under the direction of the project principal investigator (PI).
2. Complete high-quality research in the area of spatial navigation memory and associated subject areas, leading on EEG elements of the project, under the direction of the PI.
3. Publish research outputs in leading peer-reviewed journals with an international audience, as lead author where appropriate.
4. Effectively disseminate research findings at internal and external scientific meetings and conferences, making research accessible to lay and expert audiences.
5. Engage with relevant academic and professional networks through active membership of societies, associations etc.
6. Contribute to the development of effective applications for research funding from both research councils and other external sources in collaboration with the project lead/principal investigator and others.
7. Explore opportunities for enterprise activity, knowledge exchange income and/or consultancy in this and related areas.
8. Assist in the supervision of third year undergraduate dissertation students and taught Masters within the area of research expertise.
9. Ensure that their skills and technical competence are kept under review and enhanced where required to enable them to utilise specialist equipment and software used in the research projects.
10. Assist in the development of the research skills of postgraduate students; for example, as part of a postgraduate supervisory team and/or through the delivery of practical workshops.
11. Contribute to relevant departmental and research group meetings.
12. Undertake additional duties, as required by the project lead/principal investigator or Head of Department.
13. Be an active member of departmental/faculty research committee and working groups associated with particular research projects within the department or faculty.

In addition to the above all Edge Hill University staff are required to:

- a) Adhere to all Edge Hill's policies and procedures, including Equality and Diversity and Health and Safety
- b) Respect confidentiality: all confidential information should be kept in confidence and not released to unauthorised persons
- c) Undertake appropriate learning and development activities as required
- d) Participate in Edge Hill's Performance Review and Development Scheme
- e) Adhere to Edge Hill University's environmental policy and guidelines and undertake tasks in a sustainable manner
- f) Demonstrate excellent Customer Care in dealing with all customers
- g) Proactively consider accessibility and ensure appropriate quality assurance of templates, documents and published outputs using software such as Microsoft Accessibility checker and Blackboard Ally

Eligibility

Candidates should note that shortlisting will be based on information provided on the application form with regard to the applicant's ability to meet the criteria outlined in the Person Specification attached.

Internal staff wishing to apply for a fixed term role as a secondment opportunity must discuss this with their existing line manager before applying.

Additional information

Contract Type: Academic Research

- Pension Scheme: This post is eligible for the Teachers' Pension Scheme
- Annual Leave: As an academic Researcher your annual leave entitlement is 35 days per annum, pro rata.

It is important to note that this job description is a guide to the work you will be required to undertake. It may be changed from time to time to meet changing circumstances. It does not form part of your contract of employment.

It is expected that the post-holder will work flexibly according to the on-going demands of the job

Person Specification

Please note that applications will be assessed against the Person Specification using the following criteria, therefore, applicants should provide evidence of their ability to meet all criteria. Where a supporting statement is indicated you will be asked to provide a statement of how you meet this criterion within the application form.

Qualifications

Criteria	Essential or Desirable Criteria	Method of Assessment
PhD in Neuroscience, cognitive psychology or related subjects	Essential	Application

Experience and Knowledge

Criteria	Essential or Desirable Criteria	Method of Assessment
Detailed understanding and knowledge of human behavioural experiments and EEG studies to explore aspects of spatial navigation memory	Essential	Supporting Statement, Interview
Previous experience of conducting high quality research involving human behavioural experiments and EEG studies	Essential	Supporting Statement, Interview
Experience of publishing high quality academic peer reviewed articles	Essential	Supporting Statement
Experience of working in the Higher Education sector	Desirable	Application
Experience of working in multi-disciplinary research	Desirable	Supporting Statement, Interview
Knowledge of the processes involved in preparing and submitting research funding proposals	Desirable	Supporting Statement, Interview
Experience of teaching undergraduates and postgraduates, including supervising research projects	Desirable	Supporting Statement, Interview

Abilities and Skills

Criteria	Essential or Desirable Criteria	Method of Assessment
Able to communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience (both lay and expert)	Essential	Supporting Statement, Interview
Able to present research results at department meetings and conferences	Essential	Interview, Presentation
Able to work on own initiative, organising and prioritising work effectively to meet deadlines	Essential	Supporting Statement, Interview
A self-starter, able to work independently and without supervision as well as part of a team	Essential	Supporting Statement, Interview
Ability to operate flexibly and reliably, adapting to change as required	Essential	Supporting Statement, Interview
Able to develop and maintain effective working relationships at all levels	Essential	Supporting Statement, Interview
Able to work within ethical guidelines and maintain high levels of research integrity at all times.	Essential	Supporting Statement, Interview

Candidate Guidance and How to Apply

At Edge Hill University we value the benefits a rich and diverse workforce brings to our community and therefore welcome applications from all sections of society.

For informal enquiries about this vacancy, you may wish to contact: Dr Dorothy Tse, Reader at tsed@edgehill.ac.uk.

When you are ready to start the formal application process, please [visit our Current Vacancies website](#), search for the role you wish to apply for, and select the 'Apply Online' button at the bottom of the job advert. The online application form can be completed in stages and can be revisited at any time. The form automatically saves as you enter your information, and you can move backwards and forwards between individual form sections at any time prior to application submission. Help is available at each stage to guide you through the form. Before final submission, you can preview your application and can then choose to refine or submit the form.

As part of your application, you will be asked to provide details of two referees. Please see our application form for guidance on how to nominate your referees.

Please refer to the advert for the closing date for this vacancy, all applications must be submitted by 11:59pm on this date. Please note that you will receive an automated email from our online recruitment portal to confirm receipt of your application. Please check your spam/junk mail if you do not receive this email.

Following the closing date, we will contact you by email to let you know whether or not you have been shortlisted to participate in the next stage of the selection process. We try our best to inform all applicants within two working weeks following the closing date.

If you are offered the post, the offer will be subject to pre-employment clearance. You will be asked to provide: proof of your right-to-work in the UK; proof of your identity and evidence of your qualifications and professional memberships as referenced as essential or desirable in the person specification for this role. You will also be asked to complete onboarding forms including a pre-employment health questionnaire to support the University make appropriate adjustments to support you in the role. The University will also contact the referees you have nominated. Please note that you may be asked for alternative or additional referees as we seek references that cover your previous three years of employment history. Following successful completion of pre-employment clearances (including an Enhanced Disclosure and Barring Service check, as relevant, please see job advert) a start date will then be arranged with you.