



## Postdoctoral Research Assistant in Neuroscience

<b>Reference:</b>	EHR0138-0624
<b>Salary:</b>	£33,966- £37,099 per annum Grade 7, Points 27-30
<b>Contract Type:</b>	Fixed Term for 18 Months
<b>Hours:</b>	Full Time (37 hours per week)
<b>Location:</b>	Ormskirk
<b>Accountable to:</b>	Dr Dorothy Tse (Principal Investigator)
<b>Reporting to:</b>	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.

### Responsibilities:

- 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).
- Develop and program experimental tasks using Unity or comparable software to test theories and models in spatial navigation.

### Qualifications:

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

### Our Commitment

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.

### Application Process

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 Senior Lecturer in Psychology at [Tsed@edgehill.ac.uk](mailto:Tsed@edgehill.ac.uk).





## Specific duties and responsibilities

The post holder will be expected to:

- a) Design and conduct human behavioural experiments and EEG studies to explore aspects of spatial navigation memory under the direction of the project principal investigator (PI).
- b) 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.
- c) Publish research outputs in leading peer-reviewed journals with an international audience, as lead author where appropriate.
- d) Effectively disseminate research findings at internal and external scientific meetings and conferences, making research accessible to lay and expert audiences.
- e) Engage with relevant academic and professional networks through active membership of societies, associations etc.
- f) 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.
- g) Explore opportunities for enterprise activity, knowledge exchange income and/or consultancy in this and related areas.
- h) Assist in the supervision of third year undergraduate dissertation students and taught Masters within the area of research expertise.
- i) 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.
- j) 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.
- k) Contribute to relevant departmental and research group meetings.
- l) Undertake additional duties, as required by the principal investigator.



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

## 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.

Pension Scheme: This post is eligible for the Teacher's 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.





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.

*Methods of Assessment include Application Form (A), Supporting Statement (S), Interview (I), Test (T) & Presentation (P).*

		Essential	Desirable	Method of assessment (A/S/I/T/P)
<b>Qualifications</b>				
1.	PhD in Neuroscience, cognitive psychology or related subjects	*		A
2.	Detailed understanding and knowledge of human behavioural experiments and EEG studies to explore aspects of spatial navigation memory	*		S/I
3.	Previous experience of conducting high quality research involving human behavioural experiments and EEG studies	*		S/I
4.	Experience of publishing high quality academic peer reviewed articles	*		S
5.	Experience of working in the Higher Education sector		*	A
6.	Experience of working in multi-disciplinary research		*	S/I
7.	Knowledge of the processes involved in preparing and submitting research funding proposals		*	S/I
8.	Experience of teaching undergraduates and postgraduates, including supervising research projects		*	S/I
<b>Abilities and Skills</b>				
9.	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)	*		S/I
10	Able to present research results at department meetings and conferences	*		I/P





		Essential	Desirable	Method of assessment (A/S/I/T/P)
11	Able to work on own initiative, organising and prioritising work effectively to meet deadlines	*		S/I
12	A self-starter, able to work independently and without supervision as well as part of a team	*		S/I
13.	Ability to operate flexibly and reliably, adapting to change as required	*		S/I
14.	Able to develop and maintain effective working relationships at all levels	*		S/I
15.	Able to work within ethical guidelines and maintain high levels of research integrity at all times.	*		S/I





## How to Apply

When you are ready to start the formal application process, please visit our [Current Vacancies page](#) and click 'vacancies', search for the role you wish to apply for, and click 'Apply Online'. 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 it is simple to move backwards and forwards throughout at any time prior to 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.

Please refer to the advert for the closing date for this vacancy, all applications must be submitted by 11.59pm on this date. 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.

***Application > Shortlisting > Interview > Outcome***

For informal enquiries about this vacancy you may wish to contact: Dr Dorothy Tse, Senior lecturer at [tse@edgehill.ac.uk](mailto:tse@edgehill.ac.uk).

*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.*

