



Job title	Research Fellow (Title will be 'Research Associate' where an appointment is made before PhD is completed)	Job family and level	Research and Teaching Level 4 (Appointment will be Level 4 Career training grade where an appointment is made before PhD has been completed)
School/ Department	School of Medicine, Mental Health and Clinical Neurosciences, Hearing Sciences – Scottish Section	Location	Hearing Sciences – Scottish Section (based in Glasgow)

Purpose of role

This postdoctoral position (based in Glasgow) is focused on predictive mechanisms in social interaction, with the goal of understanding how people with and without hearing loss hold conversations successfully. You will be working on a series of studies, starting with established and constrained speech listening paradigms, and subsequently developing paradigms that better reflect everyday conversational experience (e.g., by including multi-person interaction, joint action, spontaneous speech etc.). Given the interdisciplinary nature of this project, expertise from adjacent fields is welcome, though an interest in the topic and some experience with neuroscience techniques are essential.

The key issue addressed in this post is how people predict their conversational partner's speech, specifically investigating the roles of motor simulation and neural oscillatory activity on prediction of content and timing. You will use electroencephalography (EEG) and transcranial magnetic stimulation (TMS), designing and conducting studies as well as overseeing the work of a research assistant (with appropriate training as necessary). You will take the lead with analysing resultant datasets, and be responsible for publishing the results. This post is primarily research focused, giving you the opportunity to use your initiative and creativity to identify areas for future research, develop methodological expertise, and extend your research portfolio.

This post is based within the Scottish Section of the University of Nottingham's Hearing Sciences group. The section currently comprises around twenty people and includes psycholinguists, psychoacousticians, audiologists, and engineers. This role will be part of the lab led by Dr Lauren V Hadley (<https://www.nottingham.ac.uk/research/groups/hs-predict/index.aspx>), and involves collaboration with the University of Edinburgh, University of Glasgow, Linköping University, and the MARCS Institute.

This post will be offered on a fixed term basis until December 2024, and is based in the Glasgow satellite of the University of Nottingham.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	<p>Research Responsibilities:</p> <ul style="list-style-type: none"> To manage, plan and conduct research activity using recognised approaches, methodologies and techniques within the research area. 	60%

	<ul style="list-style-type: none"> ▪ To identify solutions to ensure research objectives are met and deadlines, involving collaboration with others. ▪ To continue to develop personal skills in and knowledge of research methods, and contribute to the group's development or choice of methods 	
2	<p>Engagement, Communication and Continuation Responsibilities</p> <ul style="list-style-type: none"> ▪ To write up research work for publication and/or contribute to the dissemination at national/international conferences, resulting in successful research outputs. ▪ To collaborate with academic colleagues on areas of shared interest for example through collaborative or joint research projects. ▪ To build relationships with internal and external contacts to develop knowledge and facilitate future collaborations 	30%
3	<p>Teaching:</p> <ul style="list-style-type: none"> ▪ To supervise undergraduate and/or postgraduate students projects as appropriate. ▪ To participate in the assessment of student knowledge and co-supervise projects at Masters level. ▪ You are expected to contribute to teaching that is in balance with wider contributions to research and other activities. 	10%
4	<p>Other:</p> <ul style="list-style-type: none"> ▪ Any duties as required in accordance with the nature and grade of the post. ▪ Continuous professional development each year, with the support and guidance of your line manager 	

Additional Information

This post is to be based in Hearing Sciences – Scottish Section, a satellite of the University of Nottingham based in Glasgow. The section's research focuses on hearing in everyday life, from measuring micro communication behaviours in state-of-the-art labs, to recording responses to realworld situations using smartphone-based techniques. This post is part of Lauren V Hadley's UKRI Future Leader Fellowship, focused on hearing in a social world (<https://www.nottingham.ac.uk/research/groups/hs-predict/index.aspx>).

Our facilities include two large chambers with high-fidelity loudspeaker arrays, allowing recreation of a multitude of auditory environments, as well as motion-tracking systems to measure body movement, eye-tracking systems to measure gaze and pupil responses, and multiple electroencephalography (EEG) systems to measure neural activity. We will soon be extending our lab to include transcranial magnetic stimulation (TMS) equipment.

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Excellent oral and written communication skills, including the ability to communicate complex information with clarity ▪ Strong statistical skills ▪ Ability to build relationships and collaborate with others, both internally and externally ▪ Ability to organise and prioritise work and resource requirements to conduct research effectively 	
Knowledge and experience	<ul style="list-style-type: none"> ▪ Experience designing neuroscience experiments (e.g., using EEG, MEG, TMS, fMRI etc) ▪ Experience analysing timeseries data (e.g., EEG, MEG, eye-tracking, motion data) ▪ Familiarity with literatures relating to language cognition/neuroscience, prediction processes, or hearing loss 	<ul style="list-style-type: none"> ▪ Expertise in EEG or TMS specifically ▪ Programming experience (e.g., MATLAB, Python, R) ▪ Experience running experiments with human participants ▪ Experience managing staff/ supervising students
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ PhD (or near completion) in cognitive science, experimental psychology, neuroscience, hearing sciences or a related area, or the equivalent in professional qualifications and experience in research area. 	
Other	<ul style="list-style-type: none"> • Willingness to adopt the Ethos and Principles of the School of Medicine. 	



The University strongly endorses Athena SWAN principles, with commitment from all levels of the organisation in furthering women's careers. It is our mission to ensure equal opportunity, best working practices and fair policies for all.

Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
- Taking ownership** Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as H&S, EDI and other considerations.
- Forward thinking** Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
- Professional pride** Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
- Always inclusive** Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others

