University of Nottingham
UK | CHINA | MALAYSIA

Role profile

Job title	Open-Source JavaScript Programmer	Job family and level	Technical Services Level 4
School/ Department	Psychology	Location	University Park Campus

Purpose of role

The purpose of the role will be to have responsibility for the provision of open source software development and specialist support of the PsychoJS library and PsychoPy application.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	**Software development** ▪ Continued development of a JavaScript library (PsychoJS) to support the running of behavioural science experiments on the web to a high precision ▪ Programming new features and classes in the library ▪ Fixing bugs in existing code	50%
2	**Development of product testing pipelines** ▪ To develop automated testing pipelines to provide Continuous-Integrated testing of the library on a range of standard browsers	20%
3	**User support** ▪ To provide guidance and support to users of the software on the user forum	10%
4	**Provide Technical Advice** ▪ To provide technical advice in the support of grant applications and in the contribution to research publications ▪ To inform future design considerations in the Python code, as well as in other parts of the software package	10%
5	**Health and Safety** ▪ Ensure that the department complies with work related legal and health and safety standards.	2%
6	▪ Any other duties appropriate to the grade and role.	8%

Person specification

	Essential	Desirable
Skills	▪ Proven expertise in JavaScript programming ▪ Expertise with gaming or graphics libraries such (e.g. Pixi.js or WebGL) ▪ Ability to organise resource/time effectively ▪ Excellent oral and written communication skills ▪ Excellent customer relation skills ▪ Ability to build effective working relationships and collaborate with others both internally and externally ▪ Ability to understand the technical and/or experimental requirements of users	▪ Experience of server maintenance, including security provisions (firewalls, ports, encryption protocols) ▪ Proven programming ability in Typescript ▪ Proven programming ability in Python ▪ Experience of workshops, support forums etc.
Knowledge and experience	▪ Experience of open-source software development methods ▪ Experience with automated continuous-integration testing pipelines AND EITHER ▪ A) Background in computer science or related field (preferably with some knowledge of behavioural sciences) OR ▪ B) Background in experimental psychology or related field (with experience in programming)	▪ Experience with automated continuous-integration testing pipelines ▪ Experience in behavioural science software packages, such as PsychoPy
Qualifications, certification and training (relevant to role)	▪ HND in Computer Science or related field OR ▪ Proven track record with extensive work experience in a relevant technical or scientific role OR ▪ Research experience in behavioural sciences (e.g. PhD in psychology or related field)	

Athena SWAN Silver Award

The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.

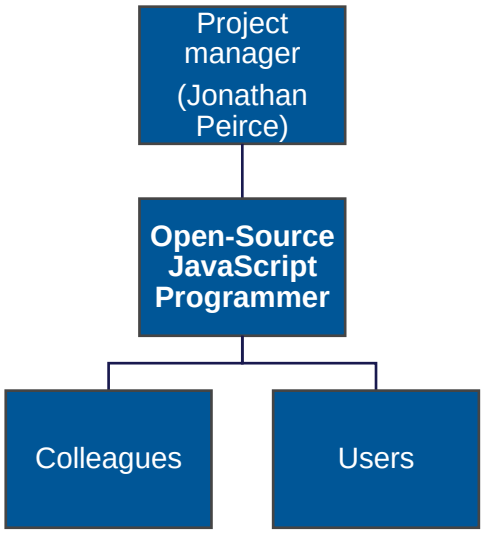
Expectations and behaviours

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 Health & Safety, Equality, Diversity & Inclusion, 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

Line manager

Role holder

Key stakeholder relationships