Role profile

Job title	Open-Source Python 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 PsychoPy Python library and application.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	**% time per year**
1	**Software development** ▪ Continued development of a Python library and graphical interface application (PsychoPy) to support the running of behavioural science experiments ▪ Programming new features and classes in the library ▪ Fixing bugs in existing code	50%
2	**Development of product testing pipelines** ▪ To continue and extend development of automated testing pipelines to provide Continuous-Integrated testing of the library	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 Python programming - 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	- Ability to deliver teaching materials (e.g. workshops, support forums etc.) - Proven programming ability with graphical user interfaces, such as wxPython or PyQt
Knowledge and experience	- Experience of open-source software development methods 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 - Experience with OpenGL
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)	

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

Project manager (Jonathan Peirce)

Role holder

Open-Source Python Programmer

Key stakeholder relationships

Colleagues

Users