

## JOB DESCRIPTION

<b>Vacancy reference:</b>	SRF34090
<b>Post Title:</b>	PDRA in Biometrics
<b>Grade:</b>	Grade 6
<b>School/Department:</b>	SMPCS / Computer Science
<b>Reports to:</b>	Prof. James Ferryman
<b>Responsible for:</b>	n/a

### Purpose

To undertake biometrics research on the EU D4fly project.

### Main duties and responsibilities

- Research, develop and evaluate biometric functions for future automatic border control as part of the EU D4fly project ([www.d4fly.eu](http://www.d4fly.eu)); specifically approaches to one or more of the following: presentation attack detection (PAD) for iris, differential face morphing attack detection (MAD), multimodal data fusion.
- Programming in relevant language (e.g. C/C++, Python, Java) on PC/mobile devices
- Contribute to the writing high impact outputs (publications) including journals
- Active role in project related activities such as data collection, integration and demonstration/trials and evaluation
- Achievement of project objectives within tight time constraints, delivering software, writing of reports and academic publications (especially journal papers) and giving presentations of work undertaken within the project
- Interaction with academic and commercial partners, including attendance at European project meetings and participation to teleconferences
- To contribute to teaching (e.g. module development and delivery) and University promotion and recruitment initiatives (e.g. Visit/Open Day)

### Supervision received

Post reports to Prof James Ferryman (Principal Investigator of the D4fly project at Reading). Prof Ferryman will provide detailed guidance on work to be undertaken within the project. However, the researcher is also expected to work independently and with initiative.

**Supervision given**

N/A

**Contact**

There will be frequent contact with the European project partners working on the D4fly project.

**Terms and conditions**

Fixed-term, full-time post (35 hours per week). Some weekend working may be necessary to achieve objectives prior to important project milestones, presentations and European meetings.

This document outlines the duties required for the time being of the post to indicate the level of responsibility. It is not a comprehensive or exhaustive list and the line manager may vary duties from time to time which do not change the general character of the job or the level of responsibility entailed.

**Date assessed:**

26<sup>th</sup> October 2020

# PERSON SPECIFICATION

Job Title	School/Department
PDRA in Biometrics	SMPCS / Computer Science

Criteria	Essential	Desirable
<b>Skills Required</b>	<ul style="list-style-type: none"> <li>• Strong scientific background</li> <li>• Programming in C/C++/Java/Python/Matlab</li> <li>• Good written and oral skills</li> </ul>	<ul style="list-style-type: none"> <li>• Experience of OpenCV</li> <li>• Experience of programming Android devices</li> </ul>
<b>Attainment</b>	<ul style="list-style-type: none"> <li>• PhD or similar research experience</li> </ul>	
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>• Knowledgeable of biometric methods</li> </ul>	<ul style="list-style-type: none"> <li>• Knowledgeable of biometric (including iris) and/or multimodal fusion and/or presentation attack detection (PAD) methods</li> </ul>
<b>Relevant Experience</b>	<ul style="list-style-type: none"> <li>• Experience of working on research project funded by industry or national research council</li> </ul>	<ul style="list-style-type: none"> <li>• Experience of working on EU project(s)</li> <li>• Experience of writing / contributing to research grant proposals, attracting new funding, generation of new research ideas</li> </ul>
<b>Disposition</b>	<ul style="list-style-type: none"> <li>• Team worker – working alongside team, academic and commercial partners to achieve goals within tight time constraints</li> <li>• Is good communicator</li> <li>• Has independence and initiative</li> </ul>	<ul style="list-style-type: none"> <li>• Willingness to travel to project meetings and/or data collection exercises and/or integration/demonstration meetings abroad as well as within UK (COVID restrictions permitting)</li> </ul>

	<ul style="list-style-type: none"> <li>• Enthusiastic about state-of-the-art research, development and technology translation towards real world and commercial deployment</li> </ul>	
<b>Other</b>	<ul style="list-style-type: none"> <li>• Writing of research reports and deliverables in a timely manner and in collaboration with Principal Investigator and junior researchers</li> <li>• Publication track record</li> </ul>	<ul style="list-style-type: none"> <li>• Publication of research at leading international venues</li> <li>• Publication of journal publication(s) with impact factor</li> </ul>

Completed by: James Ferryman	Date: 26 <sup>th</sup> Octobers 2020
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