Bournemouth University

Job Description

Position / Job Title:	**Research Assistant (RED ID** 14556**)**
Ref:	**ID: 351**
Location/Building:	**Talbot House - Talbot Campus**
Faculty/Professional Service:	**Faculty of Science and Technology**
Group/Section:	**Computing & Informatics**
Duration if Temporary:	**Fixed Term for 10 months**
Normal Hours per Week:	**2 X 18.5 hours a week** **1 X 37 hours a week**
(Some flexibility will be required in order to ensure that key time scales and deadlines are met).	
Grade:	**4**
Accountable to:	**Prof. Marios Angelopoulos**

Job Purpose

The Department of Computing & Informatics is seeking to appoint **two** talented and enthusiastic Research Assistants who will join the "Smart Accessible Carbon Monoxide Alarm" project, under the direction of the Principal Investigator, [Prof. Marios Angelopoulos](). The positions will be suitable for any profile in computer science, engineering, mathematics, statistics or from other science disciplines with knowledge in **IoT technologies**, **embedded operating systems**, **microelectronics** and **mobile applications.**

The successful candidates will need to be MSc holders in one of the listed areas and will develop a working prototype of the accessibility module for carbon monoxide alarms with integrated IoT features and smartphone integration, incorporating findings and recommendations from a previously conducted feasibility study. The roles of the Research Assistants is to contribute to the delivery of the project in terms of planning, designing, and developing a fully-operational prototype of the smart accessible CO alarm.

Main Responsibilities

1. Plan, design, conduct research, and report the work in the form of project reports.
2. Deliver research & development objectives related to the development of the prototype smart CO alarm within the timeframes of the project and ensuring the achievement of project outcomes.
3. Develop firmware and hardware solution for delivering the smart accessible CO alarm.
4. Maintain frequent and regular contact with the rest of the team members ensuring smooth and constructive collaboration.
5. Participate in internal and consortium meetings presenting and reporting work progress.

Organisation Chart (Please draw or attach a chart using job titles showing clearly the job, immediate supervisor/manager and the team roles)

Research Assistants → Prof Marios Angelopoulos

Dimensions

The work to be undertaken is funded by Ofgem and led by SGN. Other consortium members include Fireblitz and Policy Connect.

Contacts:

Internal: Prof Marios Angelopoulos

External: SGN

Challenges What are the most difficult, complex or challenging parts of the job

We are seeking a profile with expertise in IoT technologies, embedded operating systems, microelectronics.

Information Governance Responsibilities

Data User
    i.   Comply with the associated data protection, information security, information management and information technology regulations, policies, processes and procedures.

Safeguarding and Regulated Activity

If the role involves engaging in regulated activity relevant to vulnerable groups including children and disabled adults, it is an offence to apply for for and perform the role, if a person is bared from engaging in regulated activity. Further information is available in BU's Safeguarding Policy and Suitability Statement on the Recruitment and Employment of Ex-offenders.

Additional Information

The purpose of the job description is to indicate the general level of responsibility and location of the position. The duties may vary from time to time without changing their general character or level of responsibility.

BU is an equal opportunities employer which values a diverse workforce. The post holder must at all times carry out their responsibilities with due regard to the University's Dignity, Diversity and Equality Policy Statement.

Our highly skilled and creative workforce is comprised of individuals drawn from a broad cross section of the globe, and who reflect a variety of backgrounds, talents, perspectives and experiences to build our global learning community. Through fused activity, the post holder must have an understanding of and commitment to promoting a global outlook.

All employees have an obligation to be aware of the University's Sustainability Policy, Climate and Ecological Crisis Action Plan, Travel Plan and associated documents, and to ensure that they carry out their day-to-day activities in an environmentally responsible manner and inspire students to do the same.

April 2025

Bournemouth University

Person Specification

Position / Job Title: Research Assistant	Faculty / Service: Faculty of Science & Technology
Position No:	Date: April 2025

SELECTION CRITERIA	Essential / Desirable
Knowledge (including experience & qualifications)	
Expertise in Internet of Things, embedded operating systems, and microelectronics	E
MSc holder in Internet of Things, Electronics Engineering, Computer Engineering or similar area	E
Experience of working with embedded OS (Contiki, Arduino IDE) and hardware protocols (SPI, I2C)	E
Experience working with embedded ML, tinyML	D
Skills	
Ability to work independently	E
Ability to work to deadlines	E
Excellent communication skills	E
Strong administrative skills	D
Strong writing abilities	E
Effective team working skills	E
Ability to reason accurately and quickly and handle complex situations.	E
Attributes	
Analytical	E
Collegiate	E
Commitment to high quality research	E
Initiative	E
High level of attention to detail	E
Motivated to succeed	E