**Job Description: Professional Service Positions**

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| **Faculty/Directorate/Service Area:** | *FSE* |
| **Job Title:** | *Intern Programmer* |
| **Department/Subject:** | *Computer Science* |
| **Salary:** | Grade 3 Point 10: £22,214 |
| **Hours of work:** | *full time* |
| **Number of positions:** | *1* |
| **Contract:** | Fixed term for around 6 months |
| **Location:** | This position will be based at the Bay Campus |

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| **Main Purpose of Post** | 1. Gain experience by learning about and expanding an existing 4D Welsh dataset, ensuring adherence to established data collection protocols.  2. Assist in collecting 4D and audio data from participants using specialized equipment, including setting up the 3dMD camera, explaining the project, and coordinating with participants.  3. Support data cleaning, annotating and organization using basic processing techniques to prepare data for analysis, ensuring accuracy and readiness.  4. Contribute to the development of software tools, including a prototype smartphone app, to collect, compare, and analyze Welsh language fluency from spoken audio.  5. Work with deep learning tools and libraries to apply existing few-shot learning techniques to the collected data, focusing on coding and practical implementation.  6. Regularly report progress to supervisors and collaborate with the team, contributing to a dynamic project environment and gaining valuable experience in software development and data handling. |
| **General Duties** | 1. To fully engage with the University’s Performance Enabling and Welsh language policies 2. To promote equality and diversity in working practices and to maintain positive working relationships. 3. To lead on the continual improvement of health and safety performance through a good understanding of the risk profile and the development of a positive health and safety culture. 4. Any other duties as agreed by the Faculty / Directorate / Service Area. 5. To ensure that risk management is an integral part of your day to day activities to ensure working practices are compliant with the University's Risk Management Policy. **Grades 1-6** / To ensure that risk management is an integral part of any decision making process, by ensuring compliance with the University’s Risk Management Policy **Grades 7 and above.** |
| **Professional Services Values** | All Professional Services areas at Swansea University operate to a defined set of Core Values - [Professional Services Values](https://www.swansea.ac.uk/the-university/values/professional-services-values/) and it is an expectation that everyone is able to demonstrate a commitment to these values from the point of application through to the day to day delivery of their roles. Commitment to our values at Swansea University supports us in promoting equality and valuing diversity to utilise all the talent that we have.  **We are Professional** We take pride in applying our knowledge, skills, creativity, integrity and judgement to deliver innovative, effective, efficient services and solutions of excellent quality.  **We Work Together**          We take pride in working in a proactive, collaborative environment of equality, trust, respect, co-operation and challenge to deliver services that strive to exceed the needs and expectations of customers.  **We Care** We take responsibility for listening, understanding and responding flexibly to our students, colleagues, external partners and the public so that every contact they have with us is a personalised and positive experience.  Commitment to our values at Swansea University supports us in promoting equality and valuing diversity to utilise all the talent that we have. |
| **Person Specification** | **Essential Criteria:**   * Demonstrable evidence of proficiency in programming language (e.g., Python, Java, or C++) and familiarity with basic programming concepts and practices. * Demonstrate experience with data processing and data cleaning techniques, including working with large datasets and applying basic data manipulation tools. * Demonstrate basic understanding of deep learning concepts, with some experience, coursework or projects related to deep learning or data analysis. * Demonstrate ability to clearly explain technical information to non-technical stakeholders and effectively communicate with team members and participants. * Demonstrate strong organizational and time management skills, with the ability to manage multiple tasks, meet deadlines, and work independently as well as part of a team.   **Values:**   * Demonstrable evidence of taking pride in delivering professional services and solutions * Ability to work together in an environment of equality, trust and respect to deliver services that strive to exceed the needs and expectations of customers. * Demonstrable evidence of providing a caring approach to all of your customers ensuring a personalised and positive experience   **Qualification:** Currently enrolled in or recently completed a degree in Computer Science, Data Science, Engineering, or a related field.  **Experience:**   * Relevant projects related to programming, data analysis, or machine learning. Experience with software development or internships in similar fields is advantageous but not mandatory. * Experience with multimedia systems, particularly 3D, video and audio data handling and analysis, which is beneficial for working with these components of the project.   **Knowledge and Skills:**   * Proficiency in programming languages such as Python, Java, or C++. * Experience with data processing tools and techniques for cleaning and organizing data. * Ability to work with deep learning libraries and apply machine learning algorithms or models. * Strong communication skills, both written and verbal, for effective reporting and team collaboration. * Organizational skills to manage tasks efficiently and meet project deadlines.   **Desirable Criteria:**   * Familiarity with handling, annotating or analyzing 4D, facial, video and audio data, or experience with similar spatial and temporal data formats. * Knowledge or experience with few-shot learning techniques in machine learning, including their application in real-world scenarios. * Previous experience or coursework or projects in mobile app development, including knowledge of relevant frameworks or tools (e.g., but not limited to, React Native, Swift, or Kotlin). * Previous involvement in some research teams or projects that led to publication, demonstrating the ability to contribute to and communicate complex projects. * Some experience with language analysis and fluency tools, which would enhance the ability to contribute effectively to the project. |
| **Welsh Language Level** | Level 1 – ‘a little’ - pronounce Welsh words. Able to answer the phone in Welsh (good morning / afternoon). Able to use very basic every-day words and phrases (thank you, please etc.). Level 1 can be reached by completing a one-hour training course.  For more information about the Welsh Language Levels please refer to the Welsh Language Skills Assessment web page, which is available [here](https://www.swansea.ac.uk/welsh-language-standards/compliance/recruitment/). |
| **Additional Information** | Informal enquiries: k.l.tam@swansea.ac.uk  Shortlisting Date:  Interview Date:  *If a DBS check is required, you must ensure the following statement is included in the job description;*  **A satisfactory DBS certificate must be provided before a start date can be confirmed** |

  