APPLICATION FOR EMPLOYMENT
SANDWICH COURSE INDUSTRIAL PLACEMENT

ISIS, SCIENCE AND TECHNOLOGY FACILITIES COUNCIL
RUTHERFORD APPLETON LABORATORY

Please complete in full even if enclosing a CV
Use typeset or black ink to aid copying

1. APPLICANT

Surname: Jackson	First Names: Samuel Luke
Address (While at University) 5 Sea View Place, Aberystwyth, Ceredigion, SY23 1DZ	Home Address 70 Buttermere, Liden, Swindon, SN3 6LQ
Mobile Number 07794961880 Telephone Number 07794961880 E-mail address samueljackson@outlook.com	Mobile Number 07794961880 Telephone Number 01793 542710 E-mail address samueljackson@outlook.com
Please state which of the above addresses should be used for correspondence.	University Address

2. APPLYING FOR

Please state the project(s) you wish to be considered for (visit the Science and Technology Facilities Council website for a full list of projects available)

ISIS_2013_6	Development of Scientific Software
ISIS_2013_7	Software Engineer for ISIS Business Systems
ISIS_2013_8	Software Developer for ISIS eScience Systems

3. PRESENT COURSE OF STUDY

University: Aberystwyth University

Course: MEng Software Engineering

Course Year   Year 2

Industrial Placement Tutor	Name: Adrian Shaw E-mail address: ais@aber.ac.uk Telephone Number:
Main Subjects Studied:	Results to Date:

2011/2012	
Concepts in Programming (Java, Haskell)	87%
Software Development (Java)	91%
Web Development Tools (XHTML, JavaScript, CSS)	94%
Computer Hardware, Operating Sysems and UNIX Tools	87%
Communications and Telematics	66%
Chaos, Communication and Consciousness	90%
Mathematics for Computer Science	95%
Professional and Personal Development	71%

2012/2013

C and UNIX programming	N/a - Currently studying
Program Design, Data Structures and Algorithms (Java)	N/a - Currently studying
Software Development Lifecycle (Java)	N/a - Currently studying
Modelling Persistent Data	N/a - Currently studying
Artificial Intelligence Toolbox Part 1	N/a - Currently studying
Advanced Mathematics for Computer Science	N/a - Currently studying
C++, C and Java programming paradigms	N/a - Next Semester
Artificial Intelligence Toolbox Part 2	N/a - Next Semester
User Centred Design and HCI	N/a - Next Semester

4. PAST ACADEMIC RECORD

Dates From	To	Schools & Colleges	Detail Of Subjects & Levels Studied	Results
2006	2011	New College, New College Walk, Swindon, Wiltshire, SN3 1AH	BTEC National Diploma in Software Development	Triple Distinction
			A Level Business	B
			AS Level Computing	B
			AS Level Biology	B
			AS Level Chemistry	D
			Young Apprentice in Business and Administration	Passed
			GCSE Mathematics	A
2003	2008	Dorcan Technology College, Swindon, St. Pauls Drive, Swindon, SN3 5DA	GCSE English Language	B
			GCSE English Literature	A
			GCSE Mathematics	C
			GCSE Science (Double Award)	A*/A
			GCSE Business (Double Award)	A*/A
			GCSE German	C

5. PREVIOUS WORK EXPERIENCE (Most recent first)

Dates From	To	Employer Name & Address	Position Held & Nature Of Duties
10/12	Present	Aberystwyth University, Aberystwyth, Ceredigion, SY23 3BY	**Demonstrator** I am currently employed as a practical demonstrator by the university. This position involves being on hand during first year practical sessions for Java and Haskell to help students with any problems they might have with their worksheets or assignments. I am also responsible for ensuring that students get there worksheets signed off before leaving. This role has helped to further develop my verbal communication skills through imparting technical knowledge to other students.
05/08	09/11	Clarks Shoes, 20-22 The Parade, Swindon, SN1 1BA	**Sales Assistant** My time at Clark's was mostly a forward facing position in a sales team where I had to regularly deal with the public, including small children. This came in the form of interpreting and fulfilling customer needs both in store and over the phone. I was also left to manage the store's stock room for

				extended periods of time. My duties also involved some general office administration. Through this I gained the skills necessary to be able to work alongside a team, while still being able to work independently.

6. COMPUTING EXPERIENCE - Please describe your knowledge of programming/ use of software packages

My strongest programming language is Java as this is the language that I have used daily as part of my degree course and for a short time during my college BTEC course. Through my degree I have used Java to build a variety of different applications including ones which make use of Java's Swing GUI framework. My current group project also requires the use of Java Servlet technology.

I also have a good knowledge of PHP which I used throughout the second year of my BTEC college course where I built a simple blog content management system using PHP, MySQL, AJAX, HTML and CSS. During the current semester at university, I have gain a good grounding in the C programming language as part of my course. I have also have experience in various capacities with the Haskell, Lua, VB, and python programming languages.

Beyond programming languages I have also gain experience using a variety of software development packages. I use the Java Eclipse IDE almost daily and have frequently been gain experience with the NetBeans IDE as I use this for C.

7. Please give details as to why you chose the particular position

The positions available at ISIS interested me because I am excited by the opportunity to spend my industrial year at a world leading research centre. I have an ambition to enter into further postgraduate studies once I have finished my degree and so the experience working alongside leading scientific professionals would be of great interest to me. I am also attracted to the positions available at ISIS because of the chance to put the skills that I have developed through my studies to practical use with real world problems that sound both intellectually challenging and stimulating.

As a student of software engineering, I was specifically attracted to the three proposed projects that require knowledge and understanding of the computer science discipline. I am particularly interested in the fact that all three of the positions available allow the applicant to become involved with a small team of developers to help further the science carried out by this organisation. All positions also offer the chance for me to gain experience within a professional software production methodology where I can get involved with all aspects areas of development from requirements through to release.

8. ANY OTHER RELEVANT INFORMATION TO SUPPORT YOUR APPLICATION - Please include any positions of responsibility held, interests and hobbies

This year I have become more involved with my department. As well as working as a student demonstrator, I have also been volunteering as an open/visit day ambassador. I've begun attending a weekly android development workshop being run by the department. Outside of university, I have been a frequent, recreational squash player and since starting here I have taken a keen interest in long-boarding. The current academic year I have taken an interest in running, regularly doing several miles in a day.

10. THE IMMIGRATION AND ASYLUM ACT 1996

Are you entitled to work in the UK without a work permit?   Yes

Please note: all candidates who are invited for interview will be asked for documentary proof of entitlement to work in the UK (i.e. citizenship (e.g. birth certificate), permission for indefinite leave to remain in the UK or a work permit)

Universities are responsible for obtaining permission to work on behalf of the **Sandwich Student**.

11. PREFERRED PERIOD OF EMPLOYMENT

In months, standard is July to July although can be flexible with the supervisor:

From: July 2013   To: July 2014

12. DECLARATION

I certify that the information in this document is correct to the best of my knowledge and belief. I understand that any wilful mis-statements render me liable to disqualification or to dismissal, if engaged.

Signature ....   Date ...15.../.11.../.12....

13. TO BE COMPLETED BY THE UNIVERSITY TUTOR, SUPERVISOR OR OTHER RESPONSIBLE OFFICIAL OF THE UNIVERSITY OR COLLEGE

Surname of Student: Jackson	First Name of Student: Samuel
Name of Course: MEng Software Engineering	
Start Date: 09/2011	End Date: 06/2016

14. TUTOR DETAILS

Name: Wenda He	Job Title: Research Associate
Email: weh@aber.ac.uk	Contact Number: 01970 622424

Postal Address:
Wenda He, Department of Computer Science, Llandinam Building, Aberystwyth University, Aberystwyth, Ceredigion, SY23 3DB

15. REFERENCE

Stage reached and progress made on course

I have known Sam, since he started his degree in September 2011 until June 2012, in my capacity as a tutor to undergraduate students at Aberystwyth university.

Sam's eager participation and consistent attendance in my weekly tutorial sessions, clearly illustrated to me his qualities as a hard working individual who is passionate about his subject. My sessions aimed to help give students the key skills required to work successfully in a professional environment. Through my classes Sam exhibited an excellent ability to work as part of a team to help come up with innovative solutions to various problem solving tasks, as well as being an active participant in the group discussions. He also proved himself to be able to research and present material to the class (working both individually and in a group) in a detailed and confident manner.

Reviewing his exam performance from the first year, it is clear to me that he is making excellent progress with his studies here and I'm sure this trend will continue through his second year.

Please comment on the applicant's suitability for the position

I would highly recommend Sam as a candidate for a position at ISIS. If his class performance and general work ethic is of any indication as to how he will perform, I believe Sam to be an excellent candidate for a position at your organisation.

Any other information relevant to this application

12. DECLARATION

The Science and Technology Facilities Council requires that a sandwich student is visited on *at least one* occasion by a representative of the university or college to discuss progress with the student and supervisor. If there is only one visit, this should take place during the first half of the placement.

Name (BLOCK CAPITALS): **WENDA HE**

Position held (BLOCK CAPITALS): **RESEARCH ASSOCIATE**

Signature: **Date: 15/11/12**