WMG
Project Assistant (New Product Development – mechanical measurement)
£9.05 per hour (+ £1.09 holiday pay)
Ref: WMG002/16

Fixed Term Contract: 4 Weeks Full Time (with the possibility of a further 4 weeks work through the partner SME. Applicants must therefore be available for the full 8 weeks)

Working with supervision from WMG’s SME Group, you will assist Simple Stuff Works (www.simplestuffworks.co.uk/) in the development of a new product to measure the dimensions of the human body. This product will use new innovative approaches and technology to replace their current manual measurement product.

The company provide assistive healthcare products for people with severe spinal deformities, and have a global reputation as leaders in their field. This product development project will have a tangible benefit for the company, and the people who rely on their expertise and products.

The post will be mainly based at the company offices in Tamworth and partly at WMG, University of Warwick, Coventry. This may be flexible depending on personal situation.

You will be engaged for 4 weeks with WMG, University of Warwick, however at the conclusion of the 4 week period, the placement may be extended for a further 4 weeks with the partner company. Applicants must therefore be available for the full 8 week period.

You will ideally be educated to or working towards degree level in a relevant engineering field (or equivalent).

This post is not eligible for sponsorship and applicants must be eligible to work in the UK under present visa arrangements.

If you are interested in applying for this internship please send a covering letter and CV to Sam Hounsell, Administration Assistant (HR), email address: wmghr@warwick.ac.uk by 27/04/2016. Please quote the reference number WMG002/16 in all correspondence.
JOB DESCRIPTION

POST TITLE: Project Assistant (New Product Development – mechanical measurement)

DEPARTMENT: WMG

POST RESPONSIBLE TO: WMG’s SME Team, University of Warwick

SALARY IN THE RANGE: £9.05 PER HOUR (+ £1.09 HOL PAY)

REFERENCE NUMBER: WMG001/16

CLOSING DATE: 27/04/2016

JOB PURPOSE:

The WMG SME Group works with many SMEs each year. This summer they are offering up to 25 internships in SMEs across the UK. This particular project will involve undertaking an in-depth scoping and early design of a new product for measuring the human body while in a lying position, using a combination of mechanical positioning arms and digital smartphone technology. The objective is to decrease the time taken to measure a patient, and the physical contact required.

The study is expected to include idea generation, early concept designs, CAD design, production and assembly of physical functional prototypes, and consideration of final manufacturing processes and costs.

Ideally candidates will also have a working knowledge or experience of using sensing technology and low cost electronics development environments (such as accelerometers/RaspberryPi) and the Android smartphone development environment, although this is not essential.

Support from the WMG SME Group will provide materials/manufacturing advice, and digital technology support.

The post is expected to be based mainly at the premises of Simple Stuff Works in Tamworth, and partly at WMG, the University of Warwick where access to lab equipment is provided. This may be flexible depending on personal situation.

DUTIES AND RESPONSIBILITIES:

1. Generate ideas to tackle the measurement challenges, considering the patient at all times.
2. Develop most cohesive ideas through initial concept designs to physical functional prototypes for use in an initial trial using “non-patients”.
3. Produce detailed documentation and designs on project completion.
4. Liaison with Simple Stuff Works (the client) and WMG SME Group.
PERSON SPECIFICATION

POST TITLE: Project Assistant (New Product Development – mechanical measurement)

DEPARTMENT: WMG

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<tr>
<th>REQUIREMENTS</th>
<th>ESSENTIAL (E) or DESIRABLE (D) REQUIREMENTS</th>
<th>MEASURED BY:</th>
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<tr>
<td>Educated to, or working towards a relevant science or engineering degree (or equivalent).</td>
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<td>Ability to work flexibly and collaboratively as part of a team and on own initiative</td>
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<td>Knowledge of manufacturing processes including design for manufacture.</td>
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<td>Proven ability to operate an industry-level CAD software package such as SolidWorks</td>
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<td>Good organisational skills</td>
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<td>Excellent oral and written communication skills</td>
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<td>Experience of manufacturing, product development, testing and analysis.</td>
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<td>Working knowledge of low cost electronics (such as Raspberry Pi, Arduino, accelerometers), software development and Android development environment.</td>
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FURTHER PARTICULARS

For further information about the University of Warwick, please visit our website at http://www2.warwick.ac.uk/services/humanresources/jobsintro/furtherparticulars

For further information about the Department of WMG, please see our website at http://www2.warwick.ac.uk/fac/sci/wmg

For further information about WMG’s SME Group http://www2.warwick.ac.uk/fac/sci/wmg/business/sme/

For further information about Simple Stuff Works, please visit their website at http://www.simplestuffworks.co.uk/
Recruitment of Ex-Offenders Policy

As an organisation using the (DBS) Disclosure and Barring Service to assess applicants’ suitability for positions of trust, the University of Warwick complies with the DBS Code of Practice and undertakes not to discriminate unfairly against any subject of a Disclosure on the basis of a conviction or other information revealed. More information is available on the University's Vacancy pages and applicants may request a copy of the DBS Code of Practice.