

## **JOB DESCRIPTION**

<b>POST TITLE:</b>	Post-Doctoral Research Assistant
<b>DEPARTMENT:</b>	Physics
<b>SUB-DEPARTMENT:</b>	Elementary Particle Physics Group
<b>POST RESPONSIBLE TO:</b>	Dr. S. B. Boyd
<b>SALARY IN THE RANGE:</b>	£23,811 - £26,779 pa
<b>REFERENCE NUMBER:</b>	71949-052
<b>CLOSING DATE:</b>	28 June 2012

### **JOB PURPOSE:**

To support the activities of the Elementary Particle Physics Group in the MICE experiment.

### **DUTIES AND RESPONSIBILITIES:**

1. To carry out Post-doctoral research in the MICE experiment.
2. The development of simulation, reconstruction and physics analysis software.
3. Understanding and improving the performance of the MICE tracker modules.
4. Data analysis, resulting in publications in peer-reviewed journals.

**PERSON SPECIFICATION**

**POST TITLE:** Post-doctoral Research Assistant

**DEPARTMENT:** Physics

The Person Specification focuses on the knowledge, skills, experience and qualifications required to undertake the role effectively.

<b>REQUIREMENTS</b> The post holder must be able to demonstrate:	<b>ESSENTIAL (E) or DESIRABLE (D) REQUIREMENTS</b>	<b>MEASURED BY:</b> a) Application Form b) Test/Exercise c) Interview d) Presentation
Be about to gain a PhD in experimental particle physics.	E	a
Experience of programming in at least one of C++, Python and ROOT.	D	a, c
Experience with particle physics hardware and instrumentation.	D	a, c
A good grounding and general knowledge of particle physics.	E	c
A good grounding and general knowledge of beam physics.	D	c

Please note: due to its nature, this role will involve travel throughout the UK on a regular basis.

## **JOB DESCRIPTION**

<b>POST TITLE:</b>	Post-Doctoral Research Fellow
<b>DEPARTMENT:</b>	Physics
<b>SUB-DEPARTMENT:</b>	Elementary Particle Physics Group
<b>POST RESPONSIBLE TO:</b>	Dr. S. B. Boyd
<b>SALARY IN THE RANGE:</b>	£27,578 - £35,938 pa
<b>REFERENCE NUMBER:</b>	71949-052
<b>CLOSING DATE:</b>	28 June 2012

### **JOB PURPOSE:**

To support the activities of the Elementary Particle Physics Group in the MICE experiment.

### **DUTIES AND RESPONSIBILITIES:**

1. To carry out Post-doctoral research in the MICE experiment.
2. The development of simulation, reconstruction and physics analysis software.
3. Understanding and improving the performance of the MICE tracker modules.
4. Data analysis, resulting in publications in peer-reviewed journals.

## PERSON SPECIFICATION

**POST TITLE:** Post-doctoral Research Fellow

**DEPARTMENT:** Physics

The Person Specification focuses on the knowledge, skills, experience and qualifications required to undertake the role effectively.

<b>REQUIREMENTS</b> The post holder must be able to demonstrate:	<b>ESSENTIAL (E) or DESIRABLE (D) REQUIREMENTS</b>	<b>MEASURED BY:</b> a) Application Form b) Test/Exercise c) Interview d) Presentation
Possess a PhD in experimental particle physics.	E	a
Experience of programming in at least one of C++, Python and ROOT.	D	a, c
Experience with particle physics hardware and instrumentation.	D	a, c
A good grounding and general knowledge of particle physics.	E	c
A good grounding and general knowledge of beam physics.	D	c

Please note: due to its nature, this role will involve travel throughout the UK on a regular basis.

## **FURTHER PARTICULARS**

### The University

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

### Department of Physics

For further information about the Department of Physics, please see our website at <http://www2.warwick.ac.uk/fac/sci/physics>.

## **Recruitment of Ex-Offenders Policy**

As an organisation using the Criminal Records Bureau (CRB) Disclosure service to assess applicants' suitability for positions of trust, the University of Warwick complies with the CRB 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 CRB Code of Practice.