We are seeking to recruit **2 Postdoctoral Research Fellows** and **1 PhD student** for a three-year collaborative EPSRC project between the University of Brighton, City University London, and BP. This £1.3m project, entitled '*Investigation of Non-Spherical Droplets in High-Pressure Fuel Sprays*', aims to remove the experimental and numerical biases towards spherical droplets. Further details about these positions and the project can be found on: <a href="https://www.brighton.ac.uk/shrl/projects/non-spherical-droplets">www.brighton.ac.uk/shrl/projects/non-spherical-droplets</a>

## **Research Fellow in Optical Diagnostics for Sprays**

From £32,267 to £38,522 per annum. Based in Brighton.

You will join the Sir Harry Ricardo Laboratories where you will conduct experimental research in the area of optical diagnostics for fuel spray formation. You will be responsible for planning and conducting experiments on an optical engine, using high-resolution microscopic imaging and state-of-the-art laser techniques, to investigate the atomisation of diesel and biodiesel fuels. You should have a PhD in physics or engineering, good written and oral communication skills, and an attitude of open and active collaboration. Competence in optical diagnostics for multiphase flows and image processing is essential. You will have the opportunity to develop your current skills and knowledge base and to learn techniques including long-range microscopy, laser-induced fluorescence, particle tracking velocimetry, and a range of advanced image processing techniques. The post is fixed-term for three years as funding is limited, and the expected start date is 1 October 2013 or shortly afterwards. Informal enquiries about this opportunity are encouraged, and should be addressed to Dr Cyril Crua (c.crua@brighton.ac.uk).

To apply for the post visit <u>http://www.brighton.ac.uk/humanresources/jobs.html</u>. Ref: SM4033. Closing date: 21 June 2013

## **Research Fellow in Modelling of Multiphase Flows and Sprays**

From £32,267 to £38,522 per annum. Based in Brighton.

You will join the Sir Harry Ricardo Laboratories where you will focus on the development of analytical and numerical models for droplet and spray dynamics, heating and evaporation. You should have a PhD in applied mathematics, physics or engineering and an attitude of open and active collaboration. Competence in analytical and numerical modelling of multiphase flows and sprays, and the related processes is essential. The post is fixed-term for three years as funding is limited and the expected start date is 1 October 2013 or shortly afterwards. Job sharers welcome. For an informal discussion please contact Professor S. Sazhin by e-mailing <u>S.Sazhin@brighton.ac.uk</u>.

To apply for the post visit <u>http://www.brighton.ac.uk/humanresources/jobs.html</u>. Ref: SM4034. Closing date: 21 June 2013

## PhD studentship: Laser diagnostics for automotive fuel sprays

Funding: £17,000 per annum (tax-free stipend), tuition fees, consumables and travel budget. Based in Brighton.

We require a highly motivated and able researcher, with enthusiasm to undertake leading edge experimental research in automotive engineering. The successful candidate will be based within the Sir Harry Ricardo Laboratories and will use stateof-the-art facilities, including optical research engines, ultra-high-speed video and laser diagnostics. The successful candidate will join an experienced consortium, and present findings at project review meetings, as well as at national and international conferences. The PhD studentship will provide an outstanding training in laser diagnostics and advanced image processing techniques, with potential applications for numerous spray systems. Applicants should possess, or expect to be awarded, a first-class degree (or equivalent) in engineering or physics. Good mathematical skills are essential. Experience of computer programming and imaging techniques is desirable. This 3 year PhD studentship is fully funded by BP and available to UK/EU citizens only. The expected start date is 1 October 2013 or shortly afterwards. Informal enquiries about this opportunity are encouraged, and should be sent to Dr Cyril Crua (c.crua@brighton.ac.uk).

To apply call +44 (0)1273 641104 or visit www.brighton.ac.uk/shrl/projects/non-spherical-droplets