Subject: Research Associate Position, Complex Fluid Flows
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Applications are invited by highly talented researchers for a Research
Associate position funded by the EPSRC project "Fluid Processes in
Smart Microengineered Devices: Hydrodynamics and Thermodynamics in
Microspace," under the joint supervision of Prof. Serafim Kalliadasis
(Chemical Engineering, Imperial College) and Dr. Marc Pradas
(Mathematics & Statistics, Open University). The project concerns the
theoretical-computational investigation of hydrodynamics of smart
microengineered devices in the presence of complexities such as
vapour-liquid interfaces and critical phenomena- phase transitions,
thus ultimately bridging the gap between microfluidics

and modern
theoretical physics. It is in collaboration with the experimental
microchemical engineering group of Prof. Asterios Gavriilidis
(Chemical Engineering, University College London). The successful
candidate should have a PhD (or equivalent) in Mathematics, Physics,
Engineering or other related area and a strong foundation on general
mathematical modelling and mathematical techniques (analytical and
numerical). A good knowledge of interfacial fluid mechanics and
critical phenomena theory is highly desirable. They will join a
highly interdisciplinary team working on a wide variety of exciting
projects at the interface between applied mathematics and engineering
science fundamentals. The post is available immediately and is based
in the Department of Chemical Engineering at Imperial College London

(South Kensington Campus). The appointment is for 12 months in the
first instance, with the possibility of extension. Informal enquiries
about the post can be made to Prof. Serafim Kalliadasis
(s.kalliadasis@imperial.ac.uk). Should you have any queries about the
application process please contact Mrs Sneha Saunders
(s.saunders@imperial.ac.uk). Our preferred method of application is
online via our website https://www.imperial.ac.uk/jobs (please enter
the vacancy reference number ENG00132 in "Search for jobs"). Please
complete and upload an application form and a copy of your CV as
directed. For technical issues when applying online, please contact:
erecruitment@imperial.ac.uk