Research Assistant, Microfluidics Fabrication, Systems Integration & Rapid Prototyping

(Contract to end of December 2021)

Adaptive Sensors Group, INSIGHT Centre for Data Analytics
Dublin City University

Overview
The Adaptive Sensors Group (ASG, see www.adaptivesensors.com/) is a large, multidisciplinary research unit hosted by the National Centre for Sensor Research (www.NCSR.ie), in state-of-the-art facilities situated on the campus of Dublin City University. Core funding for the ASG is provided by Science Foundation Ireland through the INSIGHT Centre (https://www.insight-centre.org/insight-at-dcu), supplemented by significant project based income provided by Enterprise Ireland, the Marine Institute, EPA, EU-programmes, and Industry partners.

This role will focus on the development of customisable Platform for health and environmental on 3D Printed Microfluidics. The successful candidate will play a substantial role in the design and fabrication of fluidics units using emerging technologies like 3D printing, materials employed in the fabrication process, integration of optical and electronic components, as well as support for the characterisation and performance of prototypes for use in real world scenarios. He/she will contribute to the group’s overall research effort in autonomous instruments, including platforms for water analysis. He/she will join a multidisciplinary team that functions on the basis of mutual support across a range of projects, drawing on combined team expertise in mechanical/electronic engineering, computer science, wireless communications, web database management, environmental science, materials science, and analytical chemistry.

Duties and Responsibilities
Reporting to Dr. Margaret McCaul and Professor Dermot Diamond, he/she will:
• Play a substantial role in supporting the engineering effort of the ASG
• Participate in meetings with the interested parties (e.g. end-users, external industry and academic partners) and assist in promoting the technology being brought to market (e.g. conferences and tradeshows).
• Attend, and contribute to, group meetings
• Maintain an up-to-date profile on the group website

Qualifications and Experience
Candidates should have work/postgraduate experience in which rapid prototyping played a significant element and ideally a primary degree in mechanical/electronic or mechatronic engineering.
Expertise in systems integration, 3D CAD/CAM design, and familiarity with fabrication techniques will be important.
Experience in polymer handling, electronics and microcontroller programming is desirable.
Some experience in environmental monitoring deployments would be an advantage.
Mandatory Training
The post holder will be required to undertake the following mandatory compliance training: Orientation, Health and Safety and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.

Salary Scale: €22,497 to €30,358 per annum*
*Appointment will be commensurate with qualifications and experience

Closing date: 14th November 2019

Informal enquiries: contact Dr. Margaret McCaul (margaret.mccaul@dcu.ie)
Please do not send applications to this email address, instead apply as described below

Application Procedure
To apply for this role, application forms are available from the DCU Current Vacancies (open Competitions) website at http://www.dcu.ie/vacancies/current.shtml and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 7005149.

Please clearly state the role that you are applying for in your application and email subject line: #RF1287 Research Assistant, Microfluidics Fabrication, Systems Integration & Rapid Prototyping

Applications should be submitted by email to hr.applications@dcu.ie or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: hr.applications@dcu.ie

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