

Research Associate in Ultrafast Laser Microfabrication of Components for Biomedical Applications

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Company: Heriot-Watt University

Location: Midlothian

Category: life-physical-and-social-science

Directorate: School of Engineering & Physical Sciences

Salary: Grade 7 (£36,023-£45,585)

Contract Type: Full Time (1FTE), Fixed Term (32 Months)

Detailed Description

The Research Associate will work within the EPSRC-funded U-Care project, an EPSRC-Funded project aimed at developing transformative light-based healthcare technologies. The appointed candidate will be expected to exploit our extensive ultrafast laser microfabrication facilities to develop photonic solutions for a range of biomedical sensing applications. The applicant will work with others in the U-Care team, and will be expected to contribute to broader U-Care team meetings and other activities designed to support the project.

Key Duties and Responsibilities

We are looking for a creative and highly motivated researcher willing to work closely with our U-Care research team. Regular communication with, and reporting to, our partners is an important part of the role. General tasks will involve engineering development; analysis and interpretation of data; daily oversight of the activities of postgraduate and undergraduate project students in the laboratory; communication with other investigators involved in this collaborative project; preparation of scientific papers; presentation of research at conferences.

In detail the postholder is required to:

Design and carry out scientific and engineering experiments on ultrafast laser

microfabrication.

Work with research partners at Edinburgh and Bath universities to develop and apply the systems developed.

Develop risk assessments and COSHH forms and work within the boundaries of existing risk management procedures

Present research findings and plans at regular internal meetings, and meetings with academic partners

Provide guidance as required to support staff, research students and any other students who may be assisting with the research.

Prepare and edit scientific papers

Present research findings at conferences

Participate in the broader work of the Research Group, including industrial outreach e.g. at workshops, conferences or other meetings

Assist in the day-to-day maintenance of the experimental facilities, liaising with companies and external collaborators.

Assist the development of student research skills, and contribute to the assessment of student knowledge in the context of teaching assistant and supervision duties.

The ideal candidate will have a strong practical understanding in one or more of the following fields: laser manufacturing, ultrafast laser microfabrication, fibre optic sensing.

Education, Qualifications and Experience

Essential Criteria

Applicants should hold a degree-level qualification in a relevant area of Physics or Engineering or related subject

Applicants should have completed a doctorate degree (PhD or EngD), or be very close to completing (e.g. final stages of writing up)

Ability to articulate technical work, both in technical reports/papers and by oral presentation

Must have proven academic ability and a demonstrable high level of technical competence in experimental science and the analysis /modelling of the results

Be innovative and able to apply themselves to work with a wide range of technologies e.g. ultrafast laser-based manufacturing, system automation and control, optical characterisation.

Ability to formulate and progress work on their initiative with evidence of technical ability: problem-solving, flexibility

Must be able to work as part of a team on the experiments at Heriot-Watt and with the collaborators at other Universities

Capability to be self-directed and think innovatively.

Desirable Criteria

Evidence of ability, subject to opportunity, to guide other researchers, e.g. PhD students and undergraduate project students.

Energy and enthusiasm for the project.

Experience of ultrafast laser-based manufacturing

About our Team

Travel

Visits to the partner universities for meetings and collaborative working.

National and international conference attendance.

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