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DCU Centre for eIntegrated Care Faculty of Science & Health Dublin City University

The Centre for eIntegrated Care (CeIC) is looking to host an experienced researcher via funding through Marie Skłodowska-Curie Postdoctoral Fellowships. In order to secure funding, the experienced researcher must develop a proposal with the host for the September 15th, 2021 deadline.

Organisation Description

The CeIC strategy focuses on supporting the health of people, and on health and social care delivery through digital. Established in 2018, the CeIC is a research-intensive environment which focuses on advancing new models of care delivery which are patient centric and integrated. Working in partnership through our established networks we concentrate on service improvement through an evolving digital healthcare ecosystem. Our existing primary investigators and associate researchers are engaged in research to advance technical and societal innovation through Open Innovation 2.0 methodologies. We are particularly interested in testing and using health informatics standards to progress patient centred integrated service delivery. Further information on the centres research and staff is available from www.dcu.ie/ceic

Project idea and researcher opportunities

Research Field: Ideally the candidate will have a background in computer science or in digital health and be interested in working with a team to advance open source software or architecture for progression of universal health care. The candidate ideally would be interested in advancing new technologies for standards based interoperability such as [HL7 FHIR Schema](#) or IHE profiles, or ontology development, and data integration to progress consistent formal representation of integrated services at the information data level for eHealth standards and systems. The candidate will be joining a team of researchers who are engaged in development of semantic framework.

Researcher Requirements

- The researcher must fulfil the MSCA-PF mobility¹ and should not be more than 8 years post PhD at the deadline of the call.

¹ **Recruited researchers must comply with the following mobility rule:** they must not have resided or carried out their main activity (work, studies, etc.) in the country of the beneficiary (for European Postdoctoral Fellowships), or the host organisation for the outgoing phase (for Global Postdoctoral Fellowships) for more than 12 months in the 36 months immediately before the call deadline (<https://bit.ly/3bmT8lr>).



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- Applicants should have a PhD in a relevant area of computer science or digital health or equivalent area and demonstrate a promising track record of early research achievements.
- Background or experience in health and social care data use would be desirable.
- In addition, work experience in data integration, machine learning or NLP would also be useful.

Current to research area in CeIC

References:

- Hussey, P., Das, S., Farrell, S., Ledger, L., & Spencer, A. (2021). A Knowledge Graph to Understand Nursing Big Data: Case Example for Guidance. *Journal of Nursing Scholarship: an Official Publication of Sigma Theta Tau International Honor Society of Nursing*.
- Bella, G., Elliot, L., Das, S., Pavis, S., Turra, E., Robertson, D., & Giunchiglia, F. (2020). Cross-border medical research using multi-layered and distributed knowledge. In Proceedings of the 24th European Conference on Artificial Intelligence (ECAI) (pp. 2956-2963).
- Blobel, B. (2002). Analysis, design and implementation of secure and interoperable distributed health information systems (Vol. 89). IOS Press.
- Principles of Health Interoperability SNOMED CT, HL7 and FHIR Authors: Benson, Tim, Grieve, Graeme

Suggestion for interdisciplinary / intersectoral secondments

In line with our Open Innovation 2.0 approach to research we will provide a secondment with our ecosystem which includes partners in public service for health intelligence research and community service development of eHealth and digital for health active aging.

ADDITIONAL INFORMATION

Eligibility criteria

Academic qualification: By the MSCA-PF call deadline (September 15th, 2021), applicants must be in possession of a doctoral degree, defined as a successfully defended doctoral thesis, even if the doctoral degree has yet to be awarded.

Research experience: Applicants must have a maximum of 8 years full-time equivalent experience in research, measured from the date applicants were in possession of a doctoral degree. Years of experience outside research and career breaks (e.g. due to parental leave), will not be taken into account.



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Nationality & Mobility rules: Applicants can be of any nationality but must not have resided more than 12 months in Ireland in the 36 months immediately prior to the MSCA-PF call deadline (September 15th, 2021).

Selection process:

We encourage all motivated researchers to email Ms Sharon Farrell (Sharon.farrell@dcu.ie) apply before July 5th, 2021. Your application has to include:

- A CV including: (i) the exact date of your stay in each position and/or country and (ii) a list of publications.
- A research outline (up to 2 pages) identifying the research synergies with the Centre eIntegrated Care (CeIC) and pre-identified or relevant topics described above

Estimated Timetable:

- Deadline to apply to the present call for expression of interest: **5th July 2021**
- Selection of the most promising application(s): **9th July 2021**
- Writing the MSCA-PF proposal with the support of the above-mentioned supervisor(s): **July-August 2021**
- Expected MSCA-PF 2021 call deadline: **15th September 2021**
- Publication of the evaluation results: **February 2022**
- Start of the research project (if funded): **May 2022 (at the earliest)**

Contact information

If you are interested in applying for a MSCA-PF with DCU and in the Centre for eIntegrated Care (CeIC) please email Ms Sharon Farrell (Sharon.farrell@dcu.ie) and Dr Sumona Mukherjee (sumona.mukherjee@dcu) as early as possible.