

Are you experienced in Human Factors and Ergonomics Research and its applications in physical product development?

Would you like the opportunity to work with global multinationals, SMEs and start-ups across numerous industries? Would you like to collaborate with world class academics and researchers at a leading Irish university, a world leading product design agency and a global leader in advanced manufacturing research? Then perhaps this opportunity is for you.

HFE-Remote – Developing robust human factors and ergonomics systems for physical product development in a remote living world.

Candidate

We are looking for a talented postdoctoral engineer/designer to jointly apply to the [Enterprise Ireland Career Fit-plus program](#). The successful postdoctoral engineer/designer will work jointly with [Dolmen Design and Innovation](#), [Biodesign Europe](#) at Dublin City University and the [Irish Manufacturing Research Centre](#) where they will be involved in the development of a robust system for human factors and ergonomics research and assessment that can be leveraged by the Dolmen team to respond to the tight timelines and remote access challenges of COVID/agency life.

The applicant **must** have the following qualifications:

- A PhD or minimum 4 years recognised industrial research experience in the area of Human Factors and Ergonomics.
- The PhD or 4 years equivalent industrial research **must** be completed before the deadline of Career FIT PLUS (31st Dec 2020).
- The candidate must not have been working in Ireland for more than 12 months of the previous 3 years.
- The candidate must be demonstrably fluent in English, both written and oral.
- If not a national of an EU member state, candidate must satisfy the Irish regulations on immigration and have the support of their host institutions with respect to these regulations and requirements.
- The fellow **must** demonstrate their immigration status qualification as part of their application.

The applicant would ideally have the following experience/ knowledge:

- Worked with private companies in the development of physical products.
- A knowledge of CREO/Solidworks.
- An understanding of ISO13485.
- Practical experience with ISO62366.
- Experience working in fast paced environments.

Candidates should apply with the following (Template found in Appendix 1):

- A 1 page 'expression of interest' that includes at least 1 paragraph on your research background and experience and why it is relevant.
- A 2 page CV
- A LinkedIn Profile link
- An Orcid/Google Scholar link to your publications
- Proof of qualification for the role (see 6 points required for qualification in earlier section)

If you are interested please apply directly to Prof Nicholas Dunne of [Dublin City University](https://www.dcu.ie) and Director of Bidesign Europe (a transatlantic partnership with the [Bidesign Institute](https://www.asu.edu) at [Arizona State University](https://www.asu.edu)) (nicholas.dunne@dcu.ie) with a completed EoI form (See Appendix 1). Deadline 14th October for submission.

Background

Human Factors and Ergonomics are key elements of new product development, especially in the area of physical product development and specifically in the area of medical technology and healthcare. In fact, the reason the FDA rejected and removed from the market almost 60% of products in the last two years was due to problems with human factors and ergonomics. HFE is core to the delivery of products that work at the interface of product and human.

Dolmen has 30 years' experience in new product development work for multinationals, SMEs and start-ups from all over the world. To develop more robust methods to deliver fast paced contract work for our clients we need to ensure that we develop a world class and future focussed system to deliver HFE project work for our clients and that this system is embedded across all our work and developed for use by all of our team. The project is further impacted by recent COVID19 restrictions on work practices. We want to ensure that our new system will dynamically respond to any or all external challenges thrown at us and continue to deliver regardless of remote access challenges.

We would expect that the candidate will be exposed to multiple projects across multiple clients and multiple sectors in order to understand how work is currently done and how it might be optimised (our clients include Boston Scientific, Diageo, Hollister Inc, Henkel, BD etc). We would aim to ensure that the candidate learns as much as possible about professional agency life and in turn would expect that the Dolmen team would benefit from the experience and knowledge of the candidate. Our desire is that we develop a long term relationship with the candidate to build out our R&D capabilities, should the project be successful.

Partner Information:

IMR is a not for profit RTO (Research & Technology Organisation) focused on working with industry to adopt and develop cutting edge technologies. To date IMR have been active in various technical fields, such as Additive Manufacturing, and have been engaging with partners from across the world through various collaboration mechanisms, such as H2020.

Across the two sites in Ireland (Mullingar & Rathcoole), IMR have 70+ working daily on technical challenges and leveraging the state of the art technology available on site. A key area of importance to IMR is the leveraging of design techniques, such as Biomimicry, to combine with the advanced manufacturing techniques now available.

Comprehensive information on Bidesign Europe can be found here: <https://www.dcu.ie/commsteam/bidesign-europe>

Comprehensive information on DCU can be found here: <https://www.dcu.ie/research>

Appendix 1: Expression of Interest HFE-Remote – Developing robust human factors and ergonomics systems for physical product development in a remote living world.

Table 1: Personal Information required.

Details required	Response
First Name	
Last Name	
Email address	
LinkedIn Profile	
ORCID ID (If applicable)	
PhD or 4 years Relevant Research (Y/N)	
Date of receipt of PhD or completion of 4 years research	
Not working in Ireland for more than 12 months of the previous 3 years (Y/N)	
English Fluency	
Immigration Status for Ireland	

Applicant/post-doctoral researcher information (max 250 words) on: Previous research experience/qualifications; research areas of focus/interest; number of publications/patents; current h-index; previous awards (academic, funding); & previous industry experience.

I have read and understood the privacy policy (I agree):

Signature:

Date:

Appendix 2: Data Protection Privacy Notice (effective 1st of July 2020)

Introduction:

This Privacy Notice has been developed for Career-FIT PLUS applicants and stakeholders as a guide to (1) understanding how the project, through its management processes and procedures, collects, manages and shares the personal data obtained in the course of the programme and the related activities and (2) to ensure Career-FIT PLUS applicants feel confident about the privacy and security of Personal Data and to meet the IMR obligation under the Data Protection Acts 1988 to 2018 and the General Data Protection Regulation (GDPR; the “Legislation”, which came into effect on 25th May 2018). Those obligations, set out below, apply to Career-FIT PLUS fellowship applicants and all those involved in the programme. Under the Legislation, Personal Data is information that identifies you as an individual or is capable of doing so (“Personal Data”). This Notice extends to all Personal Data whether stored in electronic or paper format. Note: This is a summary and may be used as a reference source only. Further information on GDPR and the associated regulations and rights related to personal information can be found on the Data Protection Commission website: <https://www.dataprotection.ie/>

Data Protection Principles:

The processing of Personal Data (including the IMR technology centre) must comply with six core principles of good practice. These provide that Personal Data must be: 1. Obtained and processed fairly, lawfully and in a transparent manner; 2. Collected only for one or more specified and legitimate purposes and not further processed in a manner that is incompatible with those purposes; 3. Kept only to the extent that same is adequate, relevant and limited for what is necessary in relation to the purposes for which they are processed; 4. Kept accurate and up-to-date; 5. Retained no longer than is necessary for the purpose for which the data is processed; and 6. Processed in a manner that is safe and secure. Dolmen, DCU and IMR are committed to these responsibilities and will ensure compliance with the above principles.

How your data will be protected and managed in the Career-FIT PLUS programme:

Personal data may be defined as any information which relates to a living individual who is identifiable either from the data itself or from the data in conjunction with other information held by the Career-FIT PLUS programme or its partners, including the EU Commission. Such data (dependent on the content/context) may include one or more factors related to a person’s physical, mental, economic, cultural or social identity. Data is information that can be processed either electronically or in paper formats. In accordance with new EU GDPR regulations, the Career-FIT PLUS programme will comply with guidelines and obligations set forth under these new rules. The GDPR enables greater control over one’s personal information, including a right to object to processing this information in the course of research programme-related activities. Career-FIT PLUS with Dolmen, DCU and IMR shall employ reasonable and appropriate administrative, technical, personnel, procedural and physical measures to safeguard staff information against loss, theft and unauthorised access, uses or modifications. All

personal information stored is either password protected or is locked away in cabinets. Only a limited number of authorised personnel have access to this information. The following principles apply: Confidentiality – only people who are authorised to use the data can access it; Integrity – that the Personal Data is accurate and suitable for the purpose for which it is processed; & Availability – that authorised users should be able to access the data if they need it for authorised purposes.

Information collected:

"In carrying out the work and obligations of the Career-FIT PLUS research programme, the following types of information may be required to handle include:

- Awards received & professional membership information
- Contract of employment and commencement details
- Data relating to publications, invitations and other University's communications
- Dependant data
- Driving licences
- Email addresses & domestic living addresses
- Financial information (including but not limited to purchases orders, invoices, financial spreadsheets, expenditure reports, salary/stipend details)
- Gender
- Health and Safety issues
- Hosting or secondment agreements
- Identification data – name, address, phone number, date of birth, gender and relevant national identification number
- Images
- Interview and selection notes
- Names
- Nationality
- Newsletter contributions and social media interactions for publicity purposes to general audiences
- Passports
- Phone numbers
- Prior work experiences and qualifications (such that might be normally associated with a CV)
- Project meeting attendance record and registration (using Eventbrite or similar platform)
- Proposal submission information such as CVs, funding history, academic and non-academic collaborations, education and employment history, industry-placement reviews, project reviews and research proposals, both successful and unsuccessful
- References
- Research group affiliations
- Research related outputs and information provided on the EU commission portal or SESAME (SFI) portal in the case of CONFIRM Centre reporting
- Various ongoing records that are generated in the course of the SMART 4.0 programme (such as data relating to leave, training, performance reviews etc.)
- Visa and work permit details"

How the information is used & the legal basis:

As part Career-FIT PLUS, we may use and share your data where: Explicitly give consent to do so by email or verbal means. You may withdraw this consent at any time.

The use of personal data is:

Parties with access to personal data: "In the course of Career-FIT PLUS, data may be shared in the following manner with: Applicant's authorized representatives, including supervisors and project leaders; Industry partners for the purpose of identifying suitable training and research opportunities and for logistical purposes of conducting project meetings; Dolmen/DCU/IMR staff for the purpose of reporting and validating information received from applicants or third parties regarding the research programme and/or related activities; & Funding bodies such as Enterprise Ireland, the European Commission and other international bodies or individuals by whom funding proposals are reviewed or evaluated."

How long Personal Data is retained:

In accordance with the European Commission's terms and conditions (Article 18.1, Award: 847577), Career-FIT PLUS will hold all technical and administrative data for the duration of a given funding award plus 4 years.

Implications of not providing data or consenting to its collection:

If you do not provide authorization to collect or share your personal data when engaging with Career-FIT PLUS processes and procedures, the applicant may not be able to: be informed of activities, meetings, funding opportunities, networking events, training sessions, internships or job opportunities within Dolmen/DCU/IMR; have their proposal assessed for the purposes of obtaining a fellowship; & include contributions to the research centre in reports to third parties, including Enterprise Ireland and the European Commission.

Applicant rights, including the right to object to data usage:

From 25th May 2018, several enhanced rights came into effect: To find out if information is used and request a copy of information; Your right to request access to Personal Data held and to have any incorrect Personal Data rectified; To object to particular use of your information for Career-FIT PLUS legitimate purposes; To withdraw consent at any time where processing is based on consent; Your right to the restriction of processing concerning you or to object to processing; & Your right to have Personal Data erased (where appropriate). Vindication of your rights shall not affect any rights which we may have under the Legislation. If you want to exercise any right, you can do so by making your specific request in writing to IMR's Data Protection Officer. Your request will be processed within 30



days of receipt. If the information held about you is inaccurate, you are requested to advise the University promptly so that the necessary amendments can be made and same can be confirmed as being made within 30 days of receipt of your request. Staff also have the right to lodge a complaint with the Office of the Data Protection Commissioner.

"Sharing information for processing outside of the European Economic Area (EEA)"

In some cases, the data collected as part of the Career-FIT PLUS programme may be transferred to industry, academic and other stakeholders located outside of the EEA, including to a jurisdiction where the level of protection afforded to personal data is not as high as that in the European Union. In such cases, the data transferred or processed may include official email addresses, social media details, researcher profile/history, CVs and other related proposal submission documents. In the event that Career-FIT PLUS programme would be required to transfer data outside the EEA, before doing so, steps would be taken to ensure that there is adequate protection as required by the Legislation.