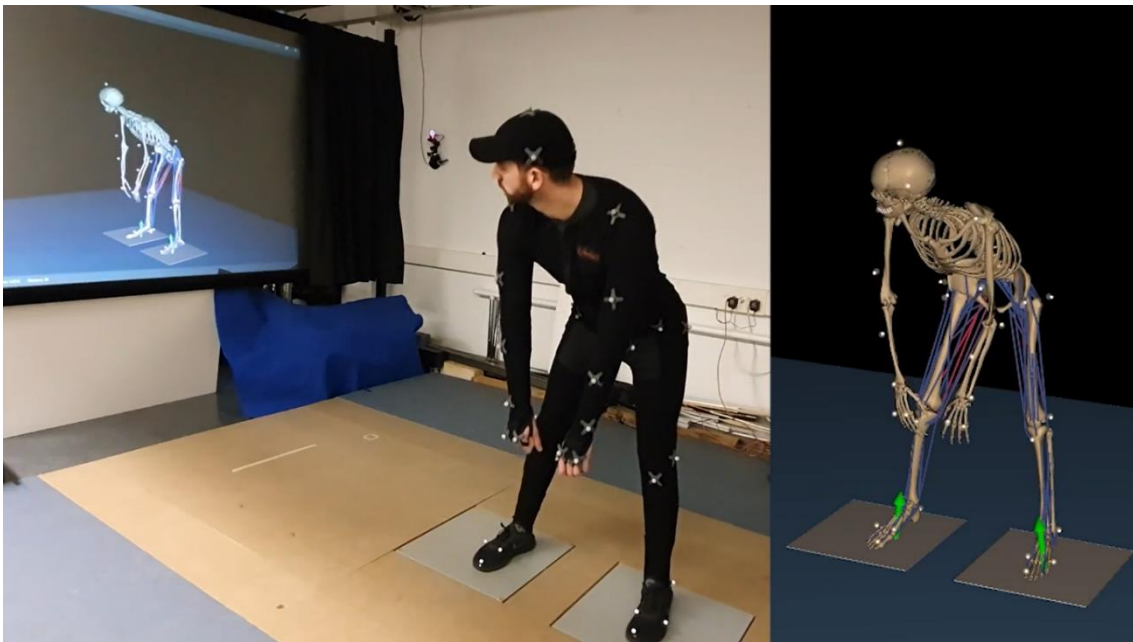


PRE-DOCTORAL CONTRACT OFFER

A **pre-doctoral contract** is offered (former FPI scholarships), associated with the national project "**Capture, reconstruction and neuro-musculo-skeletal analysis of human movement in real time, with consideration of muscle fatigue**", financed by the Ministry of Science and Innovation. The **project summary** is as follows:

This project intends to analyze, in real time, any human movement in progress, obtaining information on not only kinematic magnitudes (position, velocity and acceleration of body segments and points in said segments), but also dynamics (joint torques, external reactions), including those that involve descending to the muscular level (excitations, activations and muscular forces, joint reactions, energetic cost, muscular fatigue). The results of this research are highly applicable in the thematic priority of Health, particularly in healthy exercise, rehabilitation, ergonomics and sport, providing tools for tutoring and activity monitoring (biofeedback), which facilitate the execution of movements according to a certain pattern, the follow-up of the user's evolution, the improvement of his technique, the prevention of injuries, etc.



The pre-doctoral contract allows a **maximum duration of four years**. If the thesis is defended after the first three years of the contract, the fourth year can be enjoyed as a postdoctoral contract. The salary increases over the four years, with an average value of around **1,300 EUR per month** (12 payments/year). The contract also includes the payment of doctoral registration, as well as the financing of national or international research stays carried out by the doctoral student.

To be eligible for this pre-doctoral contract, **it is necessary to enroll in the Naval and Industrial Engineering doctoral program at the University of La Coruña in the first ordinary term. The application for admission must be made in the period September 1-8, 2023.** In order to enroll, it is necessary to have completed 300 Higher Education credits, which are generally distributed between **240 undergraduate credits and 60**

master's credits. It is not necessary, therefore, to have finished the master's degree to enroll, it is enough to have passed 60 credits (if a degree of 240 credits has been completed).

After the doctoral registration, which will take place from October 1 to 10, the call for pre-doctoral recruitment will be published on the notice board of the electronic headquarters of the University of La Coruña, and those interested must submit their applications within the established period. for said call. **It is estimated that the pre-doctoral contract could begin on January 1, 2024**, the date on which the contracted would have to join the **Mechanical Engineering Laboratory (<http://lim.ii.udc.es>)**, a research group on the Ferrol Campus in which the doctoral thesis will be developed.

Those interested, write to Javier Cuadrado (javier.cuadrado@udc.es).