PhD fellowship

Title: Advanced AI-driven Kinematic Modelling and compensation techniques for enhanced precision in robots and articulated arm coordinate measuring machines (ROBOKIM)

Fellowship description: We are looking for a predoctoral researcher who wishes to join the PID2024-159766OB-I00 ROBOKIM research project— Generación de Conocimiento call funded in the 2024 by the Ministry of Science, Innovation and Universities—through a fully funded Predoctoral Contract (4 years). The 2024 call for predoctoral fellowships aids FPI 2024 is enclosed.

The predoctoral fellowship will focus on developing advanced techniques for kinematic modelling and error compensation in articulated coordinate measuring arms and industrial robots, by integrating neural networks and artificial intelligence algorithms to generate a digital twin.

- Gross salary 25.456,095€/year, 14 payments.
- Duration: 4 years
- Application deadline: 13/02/2026

Profile: Master's degree in mechanical engineering, industrial engineering, computer science, telecommunications, electronics, or a related field.
With interest in programming and artificial intelligence applications, CAD software, and mechanical design.

Applicant requirements: see Predoctoral contracts FPI call website as a reference.

The **GIFMA research group** (https://i3a.unizar.es/es/grupos-de-investigacion/gifma) works on the development, optimization, and automation of innovative manufacturing and inspection techniques and systems. With extensive experience in collaboration with the industrial sector, it offers a multidisciplinary and dynamic environment in which new members can participate in multiple academic and research activities. We are committed to training new researchers and providing them with the necessary tools and resources to have a successful professional future.

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