

UNIVERSIDAD POLITÉCNICA DE MADRID

OFERTA DE TRABAJO/JOB OFFER

INFORMACION BÁSICA/BASIC INFO

- ***PROYECTO/PROJECT:** Next Generation Open Innovations in Trustworthy Embedded AI Architectures for Smart Cities, Mobility and Logistics (NexTArC)
- ***100% FINANCIACION UE/PLAN DE TRANSFORMACIÓN, RECUPERACION Y RESILIENCIA/100% EU FINANCING/TRANSFORMATION PLAN, RECOVERY AND RESILIENCE:** NO
- ***PUESTO OFERTADO/TITLE OF THE POSITION:** Graduado en Ingeniería en el área de las telecomunicaciones, especialidad en telemática y electrónica de comunicaciones
- ***Nº VACANTES/NUMBER OF POSITIONS AVAILABLE:** 1
- ***CATEGORÍA/RESEARCHER PROFILES:** Técnico/Gestor I+D categoría B
- ***DEPARTAMENTO/DEPARTMENT:** Grupo de Redes y Servicios de Próxima Generación (GRyS)
- ***DIRECCIÓN/WORK LOCATIONS:**
Calle Nikola Teslas, s/n
28031-Madrid-Spain
ETS de Ingeniería y Sistemas de Telecomunicación
UPM Campus Sur

INFORMACION DE CONTRATACIÓN/HIRING INFO

- ***ÁREA TECNOLÓGICA/WORK TECHNOLOGY AREA:** P-162 Telemática
- ***CAMPO DE INVESTIGACION/RESEARCH FIELD:** Technology - Telecommunications technology
- ***TAREAS/TASKS:**
Contributing to the semantic modelling of requirements for trustworthiness and resilience in digital services.
Assisting in the design and development of embedded intelligence and edge AI solutions within the cloud–fog–edge continuum.
Participating in the creation of scalable and modular AI approaches for distributed environments.
Supporting the design, implementation, and validation of AI-based decision support systems in mobility and logistics scenarios.
- ***CONTRATO/TYPE OF CONTRACT:** Indefinido de Actividades Científico-Técnicas Art. 23.bis Ley de la Ciencia
- ***JORNADA/JOB STATUS:** Jornada completa
- ***HORAS SEMANA/HOURS PER WEEK:** 37.5
- DISPONIBILIDAD PARA VIAJAR/AVAILABILITY TO TRAVEL:** Si, Internacional
- ***SALARIO BRUTO AÑO/SALARY OFFERED:** 25380
- ***FECHA LÍMITE INSCRIPCIÓN/APPLICATION DEADLINE:** 21/10/2025
- ***FECHA ESTIMADA DE CONTRATACIÓN/ESTIMATED DATE OF JOB CONTRACT:** November 2025
- ***DURACIÓN DE TAREAS DEL CONTRATO/TERM OF CONTRACT:** 31/08/2028
- ***FINANCIACIÓN PROGRAMA MARCO UE/IS THE JOB FUNDED THROUGH A EU RESEARCH FRAMEWORK PROGRAMME?:** HE
- PROGRAMA REFUGIADOS UE/Science4Refugees:** No

INSCRIPCIÓN/APPLICATION

- ***EMAIL DE INSCRIPCIÓN/APPLICATION EMAIL:** gi.grys@upm.es
- ***PERSONA DE CONTACTO/CONTACT PERSON:** Néstor Lucas Martínez
- WEBSITE:** <https://grys.etsist.upm.es/offers>

REQUISITOS/REQUIREMENTS

*NIVEL EDUCATIVO REQUERIDO/REQUIRED EDUCATION LEVEL

- **PRINCIPAL CAMPO DE INVESTIGACIÓN 1/MAIN RESEARCH FIELD 1:** Engineering
 - NIVEL/LEVEL: Grado
- **PRINCIPAL CAMPO DE INVESTIGACIÓN 2/MAIN RESEARCH FIELD 2:**
 - NIVEL/LEVEL:

HABILIDADES-CUALIFICACIONES-INFORMÁTICA/SKILLS/QUALIFICATIONS:

- Degree in Electronic Communications Engineering and/or Telematics Engineering (ICT profile).
- Strong background in embedded systems, edge computing, and AI integration on hardware accelerators (e.g., Hailo-8).
- Knowledge of UAV/UGV systems, robotics middleware (ROS2), and autonomous mission control.
- Proficiency with microservices architectures, Docker containerisation, and open-source development tools.
- Experience with communication protocols (REST, gRPC, MQTT) and real-time telemetry platforms (ThingsBoard, MariaDB).
- Solid grounding in software engineering practices: UML modelling, simulation, and testing under ISO/IEC/IEEE 29119.
- Demonstrated ability in agricultural precision applications using ICT and AI, aligned with sustainability and SDGs.
- Strong technical writing, documentation, and presentation skills in English and Spanish.

REQUERIMIENTOS ESPECÍFICOS/SPECIFIC REQUIREMENTS:

- Bachelor's degree in Engineering (Electronic Communications and/or Telematics/ICT).
- Candidates currently enrolled in a Master's degree in Engineering will be highly valued, especially those with an interest in pursuing a PhD in the field.
- Demonstrated ability to work on applied research projects combining hardware, software, and AI for real-world deployments.
- Capacity to collaborate in multidisciplinary environments and with international research teams.

IDIOMAS REQUERIDOS/REQUIRED LANGUAGES:

- **IDIOMA 1/LANGUAGE 1:** Spanish
 - NIVEL LECTURA/READING LEVEL: Alto
 - NIVEL ESCRITO/WRITING LEVEL: Alto
 - NIVEL CONVERSACIÓN/CONVERSATION LEVEL: Alto
- **IDIOMA 2/LANGUAGE 2:** English
 - NIVEL LECTURA/READING LEVEL: Medio
 - NIVEL ESCRITO/WRITING LEVEL: Medio
 - NIVEL CONVERSACIÓN/CONVERSATION LEVEL: Medio
- **IDIOMA 3/LANGUAGE 3:**
 - NIVEL LECTURA/READING LEVEL:
 - NIVEL ESCRITO/WRITING LEVEL:
 - NIVEL CONVERSACIÓN/CONVERSATION LEVEL:

EXPERIENCIA EN INVESTIGACION REQUERIDA/REQUIRED RESEARCH EXPERIENCE:

- **CAMPO INVESTIGACIÓN 1/RESEARCH FIELD 1:**
 - AÑOS MÍNIMOS DE EXPERIENCIA REQUERIDOS/MINIMUM YEARS OF EXPERIENCE REQUIRED:
- **CAMPO INVESTIGACIÓN 2/RESEARCH FIELD 2:**
 - AÑOS MÍNIMOS DE EXPERIENCIA REQUERIDOS/MINIMUM YEARS OF EXPERIENCE REQUIRED:
- **CAMPO INVESTIGACIÓN 3/RESEARCH FIELD 3:**
 - AÑOS MÍNIMOS DE EXPERIENCIA REQUERIDOS/MINIMUM YEARS OF EXPERIENCE REQUIRED:

INFORMACIÓN ADICIONAL/ADDITIONAL INFO

BENEFICIOS/BENEFITS:

CRITERIOS Y PROCESO DE SELECCIÓN/ELIGIBILITY CRITERIA AND SELECTION PROCESS

(<https://www.upm.es/Investigacion/HRS4R/HRS4R/Seleccion>):

Se aplican las pautas establecidas en el proceso de selección del nuevo *Reglamento para el proceso de selección y contratación del personal investigador, personal técnico y personal gestor relacionado con la investigación de la Universidad Politécnica de Madrid*, aprobado en la UPM.

Applicants are invited to submit their CV and cover letter to the specified email address.

COMENTARIOS ADICIONALES/ADDITIONAL COMMENTS:

- The position is designed as a stepping stone toward postgraduate research, with opportunities to contribute to international projects in embedded AI, and intelligent services at the edge (cloud-fog-edge continuum).
- We strongly encourage applications from candidates interested in advancing toward a doctoral thesis and contributing to sustainable technological innovation.
- The candidate will join a collaborative research environment where interdisciplinary work and open-source contributions are encouraged.

Proyecto financiado por la AGENCIA ESTATAL DE INVESTIGACIÓN del Gobierno de España (Referencia: PCI2025-163248) y por la COMISIÓN EUROPEA (Grant agreement ID: 101194287)

Project funded by the SPANISH STATE RESEARCH AGENCY (Reference: PCI2025-163248) and by the EUROPEAN COMMISSION (Grant agreement ID: 101194287).