

### UNIVERSIDAD DE GRANADA

### CITIC

### Ofertas de Trabajo de Otras Entidades

# Open PhD Position at TU Dresden, Germany. 16/06/2025. Fecha límite: 27/06/2025

We currently have the following open PhD position at the Chair of Adaptive Dynamic Systems at TU Dresden, Germany

(For more details see: https://www.hipeac.net/jobs/15109/research-associate-phd-student-mfx/ )

### Research Associate / PhD Student (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **as soon as possible**. The position is limited to 36 months. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification (usually PhD). Balancing family and career is an important issue. The position is generally suitable for candidates seeking part-time employment. Please indicate your request in your application.

### Position#6: TRR404-TUD-B07

### **Project: B07 Reconfigurable Architecture**

Project Leader: Prof. Diana Göhringer (Chair of Adaptive Dynamic Systems)

Terms: 100% of the full-time weekly hours

**Tasks:** The PhD student will be responsible for the modeling and simulation of 3D reconfigurable architectures e.g. based on emerging technologies (e.g. RFETs, memristive devices), and the evaluation with e.g. machine learning and image processing benchmarks

**Requirements:** Excellent university degree (master or comparable) in computer engineering or electrical engineering. A strong background in digital design, hardware description languages (e.g. Verilog, VHDL, SystemC), reconfigurable architectures (e.g. FPGA, CGRA)

#### What we expect from you:

- above-average degree achieved in short study period
- willingness and ability to think beyond the boundaries of your field, to act in an international and diverse environment and to live an open and constructive communication
- strong analytic and problem-solving skills, creativity
- an independent, target- and solution-driven work attitude
- fluency in English, knowledge of German would be a plus

**What you can expect from us:** A varied and challenging research task, embedded in a friendly, inclusive and supportive team of the TRR's Principal Investigators (i.e., project leaders and supervisors). We maintain an open and cooperative work attitude with maximum personal responsibility, mutual support with a solution-oriented approach, and flexible working hours where possible. As a PhD student you will be integrated in the TRR's Graduate School as well as becoming a member of the TU Dresden' Graduate Academy. Both will offer tailored educational programs and individual supervision agreements.

In addition, **TUD offers:** employment in accordance with the provisions of the collective agreement for the public service of the Länder (TV-L); an individual assignment of the collective agreement experience level taking into account your previous professional experience; 30 days annual vacation and annual bonus payment (restrictions apply); additional pension scheme (VBL); very good accessibility by public transport; car parking facilities; state-of-the-art buildings with labs equipped to a high technical standard; a wide range of offers for health promotion and for the compatibility of family and career; numerous opportunities for further training, including language courses, IT courses and other courses.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your application including a motivation letter, CV, copy of degree certificate, transcript of grades (i.e., the official list of coursework including your grades) and proof of English language skills, by **June 27, 2025** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal https://securemail.tu-dresden.de http://citic.ugr.es/ by sending it as a **single pdf file** quoting the **reference number ADS\_TRR404**-**BO**, in the subject header to **@email** Please Submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis

## Marie Sklodowska-Curie Postdoctoral Fellowship in Verona Italy. 09/06/2025. Fecha límite: 30/06/2025

Cigdem Beyan et al. invite scholars to present expressions of interest in applying jointly with the Department of Computer Science (VIPS Research Group) at the University of Verona for a Marie Skłodowska-Curie Postdoctoral Fellowship (MSCA-PF) on Multimodal Deep Learning for Behaviour Understanding. The details of the project are briefly given below.

### PROJECT DESCRIPTION

Multimodal Understanding of Fish Behavior through Visual and Acoustic Cues

Fish behavior is a key driver of ecological processes, influencing population dynamics, predator-prey interactions, reproductive success, and social structures. Behaviors associated with reproduction, such as nest building, courtship, and mating, are particularly important for species survival and are often closely tied to specific environmental cues and seasonal patterns.

Understanding these behaviors is therefore essential for biodiversity conservation and effective ecosystem management. This project aims to develop a multimodal framework for analyzing fish behavior by integrating visual and acoustic data. The methodology involves automated detection and tracking of fish from video recordings to extract individual trajectories, which are labeled with specific behavioral categories. These visual cues are then complemented by underwater acoustic data to capture species-specific sounds related to various behavioral contexts, including courtship, territorial defense, and responses to potential threats. It is established in marine biology that fish produce sounds during critical agonistic and reproductive interactions, such as attracting mates, coordinating spawning, defending nests, or deterring intruders. Despite this, current AI systems for behavior analysis rely solely on visual data, while audio-based solutions remain largely unexplored in this domain. Visual-only approaches often struggle to interpret complex behaviors, particularly in low-visibility conditions or when acoustic signals carry essential information. By aligning movement trajectories with acoustic signals, this project seeks to provide a more comprehensive understanding of fish behavior, especially during the reproductive season when such behaviors have significant

Página 3

ecological implications.

### HOSTING RESEARCH GROUP

Supervisor: Cigdem Beyan, University of Verona, Italy, https://urldefense.com/v3/\_\_https://cbeyan.github.io/\_\_;!!D9dNQwwGXtA!QVhhhB1UHfsvXOV-CR-iLVRc7Z3KDytpRdMmjAolTpl28Jg75KU3mQVxIPMJM3tNOs3opIcME4gy\$ Co-supervisor: Vittorio Murino, University of Verona, Italy, https://urldefense.com/v3/\_\_https://www.vittoriomurino.com/\_\_;!!D9dNQwwGXtA!QVhhhB1UHfs CR-iLVRc7Z3KDytpRdMmjAolTpl28Jg75KU3mQVxIPMJM3tNOs3opoRHuO0M\$ Partner: Kim Halvorsen, Institute of Marine Research, Norway, https://urldefense.com/v3/\_\_https://fishlarvae.org/people/scientists/kim-thalvorsen/\_\_;!!D9dNQwwGXtA!QVhhhB1UHfsvXOV-CRiLVRc7Z3KDytpRdMmjAolTpl28Jg75KU3mQVxIPMJM3tNOs3opjxOgGbQ\$ Partner: Tonje Knutsen Sørdalen, University of Agder, Norway, https://urldefense.com/v3/\_\_https://www.uia.no/omuia/ansatte/tonjeks/\_\_;!!D9dNQwwGXtA!QVhhB1UHfsvXOV-CRiLVRc7Z3KDytpRdMmjAolTpl28Jg75KU3mQVxIPMJM3tNOs3ophIEh6Wm\$

### ELIGIBILITY

Candidates must be eligible according to the criteria established by the 2024 MSCA Postdoctoral fellowship call:

\* To have a PhD by the deadline (September 10, 2025)

\* To have up to 8 years of research experience after a PhD

\* To be a citizen of an EU State or of an Associated Country, or a long-term resident in Europe (only for the Global Fellowship)

\* Not to have resided or carried out their main activity in Italy for more than 12 months in the 36 months before the call deadline (September 10, 2025) – for European Fellowship

\* Not to have resided or carried out their main activity in the country of the Host Institution in the third country for more than 12 months in the 36 months before the call deadline (September 10, 2025) – for a Global Fellowship.

Besides, candidates should be fluent in English, should have an excellent teamwork attitude, organizational skills, and the ability to work in a multidisciplinary environment.

APPLICATION

Candidates should send to the address **@email** the following documents by 30/06/2025 at the latest.

Documents to be sent:

- 1. A cover letter (one page)
- 2. CV
- 3. PhD Certificate or Proof of PhD Completion
- 4. Publication list

Further information

\* Department Website / Centre Website: https://urldefense.com/v3/\_\_https://www.di.univr.it/?lang=en\_\_;!!D9dNQwwGXtA!QVhhhB1UHfs CR-iLVRc7Z3KDytpRdMmjAolTpl28Jg75KU3mQVxIPMJM3tNOs3opn9aAdVk\$ \* Marie Sklodowska-Curie Actions: https://urldefense.com/v3/\_\_https://www.univr.it/en/marie-curiefellowship\_\_;!!D9dNQwwGXtA!QVhhhB1UHfsvXOV-CRiLVRc7Z3KDytpRdMmjAolTpl28Jg75KU3mQVxIPMJM3tNOs3opIMhceji\$ \* Contact address: @email

# Postdoctoral Research Fellowship in Smart Technologies for Sustainable Agriculture. 26/05/2025. Fecha límite: 01/06/2025

The African German Centre of Excellence for Sustainable and Resilient Food Systems and Applied Agricultural and Food Data Science (UKUDLA) invites applications for a prestigious Postdoctoral Research Fellowship focused on transformative agricultural technologies in Southern Africa. Funded by the German Academic Exchange Service (DAAD) with support from the Federal Ministry of Education and Research, Germany, this fellowship is designed for candidates who have studied in Germany and maintain ongoing research links with German universities. UKUDLA represents a world-class international collaboration co-led by the University of Hohenheim (Germany) and the University of the Western Cape (South Africa), with strategic partnerships including the University of Pretoria, Lilongwe University of Agriculture and Natural Resources, and the University of Mpumalanga.

Research Focus

This fellowship centers on integrating Artificial Intelligence (AI), Drones, Robotics, and Internet of Things (IoT) technologies to enhance agricultural resilience and sustainability. Research will develop data-driven frameworks supporting smallholder farmers in addressing climate variability, resource efficiency, and food security challenges while advancing UN Sustainable Development Goals 2, 12, and 13.

Key Responsibilities

- Lead interdisciplinary research on AI, drone, robotics, and IoT applications in agriculture
- Design and implement pilot studies in partnership with farming communities
- Develop scalable, technology-enabled solutions for precision agriculture and climate-smart practices
- Analyze real-time sensor and imaging data using advanced AI and machine learning techniques
- Publish findings in high-impact academic journals
- Present research at international conferences

Candidate Profile

**Essential Qualifications** 

- PhD in Agricultural Engineering, Computer Engineering, Computer Science, Robotics, Data Science, or related field
- Demonstrated experience in AI/ML, embedded systems, drone/robotic platforms, or agricultural technologies
- Programming proficiency in Python, MATLAB, R, or similar languages
- German study background with ongoing research connections to German universities

Desired Attributes

- Strong analytical and problem-solving capabilities
- Excellent communication and collaborative skills
- Commitment to transdisciplinary, impact-driven research

• Passion for sustainable agriculture and technology innovation

### Fellowship Benefits

- 1) Financial Support
  - Duration: 12 months (renewable based on performance and funding availability)
  - Monthly allowance: €3,900 (for South Africa-based activities)
  - Travel costs: Fully covered international flights
  - Research funding: Additional funds available upon application

### 2) Experience

- International exposure: Work within a multicultural, collaborative environment
- Career advancement: Exceptional opportunity to build expertise in cutting-edge agricultural technologies

### Application Details

Application Deadline: June 1, 2025 Start Date: July 1, 2025 Locations: Germany (University of Hohenheim in Stuttgart) and any any of the Southern African institutions (University of the Western Cape, University of Pretoria, University of Mpumalanga, and Lilongwe University of Agriculture and Natural Resources)

How to Apply

The application documents can be downloaded from this link. The application can be filled online via this link.

Inquiries can be sent to @email

# Postdoc Position @ Paris-Saclay University Campus: Wireless MLops, Embedded AI. 26/05/2025. Fecha límite: 30/05/2025

A new postdoc position is open at our lab at Inria on the Paris-Saclay University campus, on a topic combining digital twins, tiny neural networks and wireless communication compression.

The activities focus on novel embedded AI techniques combining two complementary aspects. On the one hand, efficient data communication using AI with neural network models that can summarize and compress data from one or more sensors to a server. On the other hand, TinyML and TinyMLops which focus on the implementation of AI directly on resource-constrained microcontrollers.

The position is 2 years long, across 2 locations: the first year in Paris-Saclay, the second year in Berlin at Freie Universität Berlin.

For more information or to apply see: https://recrutement.inria.fr/public/classic/en/offres/2025-08858

The deadline to apply is May 30th.

# 30 month Post-Doc Position in Computer Vision and Environnemental Studies in La Rochelle, France. 15/05/2025. Fecha límite: 13/06/2025

La Rochelle University is recruiting a post-doctoral fellow on a 30-month fixed-term contract.

This project aims at gaining a better understanding of the effects of global change on the ecology of marine birds and mammals using artificial intelligence. Recent development of bio-logging tools (small devices attached to free-ranging animals that collect behavioural and environmental data) enabled us to collect large amounts of complex multimodal data. In particular, small animal-mounted cameras provide image data on the surrounding environment in addition to behaviour of equipped animals. However, the images acquired by these 'bio-loggers' pose new analytical challenges and require the development and implementation of methods for efficiently and accurately extracting, analysing and interpreting this complex and voluminous data.

Indeed, underwater images are inherently challenging to analyze. The data collected are affected by the non-homogenous effects of light absorption and scattering in the water (blurriness, contrast, disappearance of specific colours, etc.), which could lead to misinterpretation of objects. In addition, images are collected from animals moving freely within the water column, thus can suffer from loss of quality due to ever-changing backgrounds, shifts in focus, and rapid changes in illumination, colour, water turbidity and noise. The successful candidate will work on:

1- developing innovative methods for easy processing and analysis of video data obtained by biologging devices using machine learning-based video and image processing methods.

2- testing different types of models on biologging hardware with the objective of implementing image video processing directly on-board biologgers for near-real time transmission via satellite when animals are at sea, given the restrictions inherent to small size biologgers, limited energy supply and limited message size for data transmission.

3- Propose some frugal AI approaches which will be able to generalize on few samples, in order to learn new concepts / classes with few samples (like in the case of test-time adaptation, in-context learning or incremental learning methods).

The data used in this project will be from video-recording underwater cameras deployed on 40 Adelie penguins on the Antarctic continent, along with location and depth sensors, as well as high-resolution tri-axial accelerometers and magnetometers. This dataset will potentially be supplemented by videos recorded on seals, in different ecosystems. Training datasets have already been manually implemented and will be ready to use at the start of the project.

- Position: 30-month full-time position
- Salary: Starting from 2100 € monthly (net) for full-time work
- Experience : Candidates must hold a PhD diplôma at the time of the application. The
- recruitment is open to candidates with disabilities.

Your application must include a cover letter, a detailed curriculum vitae and a copy of highest diploma

This application must be submitted by email at: @email ; @email ; @email ; @email

More details are available here: https://ao.univ-lr.fr/index.php/s/qXkpKP4xtsXaWbs

# Open Faculty Call - Two 4-Year Research Positions at Mid Sweden University. 25/04/2025. Fecha límite: 20/05/2025

The Faculty of Science, Technology and Media (NMT) at Mid Sweden University (MIUN) is excited to announce an open call for two Associate Senior Lecturer positions (4-year research-focused roles).

Position highlights:

• 4-year appointments with 70% dedicated research time

Página 9

- One fully funded PhD student attached to each position
- Freedom to shape your research direction
- A vibrant, supportive research environment with active collaborations across groups

We're especially enthusiastic to welcome candidates whose expertise complements and strengthens our existing areas, including signal processing for communication networks, security and privacy, and distributed computing and algorithms.

You may find yourself working alongside our Communication Systems and Networks (CSN) group — one of Scandinavia's leading research teams in wireless connectivity and Industrial IoT (and yes, we're great collaborators).

These positions are perfect for early-career researchers seeking to establish independence, cultivate new partnerships, and create a meaningful impact.

Learn more and apply here: https://www.miun.se/en/work-at-theuniversity/career/jobs/vacancy/two-associate-senior-lecturers-/

Location: Mid Sweden University

We look forward to hearing from you — or feel free to share with someone who might be a perfect fit!

Information about processing of personal data at Mid Sweden University: www.miun.se/en/personaldata

# PhD position in 6G at the Department of Electrical Engineering at Uppsala University in Sweden. 21/04/2025. Fecha límite: 16/05/2025

Open position in 6G Ambient IoT at Uppsala University in Sweden. Sweden has recently been ranked as the fourth happiest country in the world.

The group: The Networked Embedded Systems research group at the Department of Electrical Engineering at Uppsala University in Sweden offers an exciting PhD position and a very friendly atmosphere in an international environment. The group performs cutting edge research in backscatter communication, intermittent computing (both cornerstones in 6G Ambient IoT), in-body communication, machine learning for embedded devices and many other research directions in the area of networked embedded systems.

Project description: 6G promises to revolutionize connectivity by delivering ultra-fast data speeds, near-zero latency, and massive connectivity for billions of IoT devices,

far surpassing the capabilities of 5G. A central component of 6G, Ambient IoT, is expected to enable a wide range of new IoT applications across various industries, driven by the ability to deploy and manage billions of interconnected devices. These applications include smart cities, agricultural and environmental monitoring, smart and ubiquitous healthcare, environmental sustainability by advanced waste and resource management, to name a few. Ambient IoT devices are expected to be battery-free relying on energy harvesting and using backscatter communications to reduce the energy consumption for communication to a minimum. In this project, we aim to look at both the Ambient IoT devices as well as the infrastructure to provide scalable IoT services.

Requirements: The applicant must be interested in coming up with novel solutions within the project's topic, implement and evaluate them, ideally on real hardware using low-level computer languages such as C. Very good oral and written proficiency in English, as well as very good study results are required. In addition, we expect personal characteristics, such as a high level of creativity, thoroughness, and/or a structured approach to problem-solving. A plus is if you have experience in both hardware and low-level software development as well as knowledge about wireless communication and networking.

Environment: We have an exciting work environment designed by the doctoral student and the research team together. The doctoral student will be supervised by at least two supervisors. The Department of Electrical Engineering also gives a salary supplement in addition to the local guidelines for doctoral students at Uppsala University. Sweden is a fantastic place for living and working and always among the top 10 countries in the world's happiness index. Swedes are friendly and speak excellent English. The quality of life is high, with a strong emphasis on outdoor activities. The Swedish working climate emphasizes an open atmosphere, with active discussions involving both junior and senior staff. Spouses of employees are entitled to work permits. Healthcare is free after a small co-pay and Uppsala University subsidizes athletic costs, such as a gym membership. The parental benefits in Sweden are among the best in the world, including extensive parental leave (for both parents), paid time off to care for sick children, and affordable daycare.

For any questions, please contact Prof. Thiemo Voigt, @email

Application: Please submit your application by May 16, 2025, at: https://urldefense.com/v3/\_\_https://uu.varbi.com/en/what:job/jobID:818102/\_\_;!!D9dNQwwGXt/ \_tCUoXsT5IYTIACs6u3ov6kWPUmZ73fDqKEi0VetmCD015eiskqNnU8VpTk\$

http://citic.ugr.es/ Página 11

## Two Open Positions (Postdoc and Ph.D.) at LIUPPA France. 21/04/2025. Fecha límite: 25/04/2025

Two open positions (Postdoc and a PhD) are open at LIUPPA Labs ( https://liuppa.univ-pau.fr/en/home.html), Anglet - Biarritz, France.

• **Ph.D. Title**: Development of an AI-based framework using digital twin for the collection and generation of synthetic geospatial MultiSIG data for sustainable urban management.

https://drive.google.com/file/d/1g0yvvgnl\_ojz8EIK4xLjbdnkxSXvlwkV/view

• **Postdoc Title**: Multi-Agent Federated Learning for Decentralized Edge-to-Cloud Synchronization of Geospatial Digital Twins: https://drive.google.com/file/d/1ImQ\_YhhojrN3iSRwwSJhmFI-YeKFCzxD/view

Application deadline April 25th, 2025

### Senior Performance Engineer, Real-Time at RTI, Granada, Spain. 07/04/2025

Are you passionate about pushing software systems to their limits and ensuring they perform flawlessly in critical environments? We are seeking a highly skilled Performance Engineer to join our team and make a tangible impact by driving the performance characterization and optimization of Connext Professional.

In this role, you'll work on performance modeling, workload characterization, network performance, and bottleneck analysis to unlock the full potential of our systems. You will leverage your expertise in computer architecture, algorithms, and performance evaluation to develop benchmarks, conduct detailed analyses, and collaborate with teams to solve complex performance challenges.

If you thrive in high-stakes environments where scalability, latency, and system throughput are key to success, we want you on our team!

https://job-boards.greenhouse.io/rti/jobs/6691697?gh\_src=9b7fcfdc1us

# Postdoctoral position - FPGA - Virginia Tech. 04/04/2025

A postdoctoral position is available in the Systems Software Research Group ( https://www.ssrg.ece.vt.edu/) at Virginia Tech (https://vt.edu/) on a hardware security project. The project goals include investigating innovative hardware abstraction layers for mitigating a class of security exploits, in a minimally invasive way to software stacks, and developing RISC-V-based prototypes. Opportunities also exist to

Página 12

investigate project-relevant directions of mutual interest. Opportunities to mentor PhD students and develop strong tenure-track faculty profiles exist.

Recent Computer Science or Computer Engineering PhD graduates with a thesis in reconfigurable computing, hardware acceleration, or FPGA virtualization are sought. Strong expertise in both FPGA development tools (e.g., Vivado) and compiler infrastructures (e.g., LLVM) is essential. Expertise in software infrastructures such as Linux OS kernel and virtualization infrastructures (e.g., Firecracker) is highly sought.

The position has no teaching obligations. Contact Prof. Binoy Ravindran with a CV ( @email) or for any questions.