

CITIC

Ofertas de Trabajo de Otras Entidades

Postdoctoral Research Position at INATEL, Brazil. 17/10/2025. Fecha límite: 01/02/2026

A postdoctoral position is open at the 5G and 6G Network Competence Center, with in the **Wireless and Artificial Intelligence Laboratory (WAI Lab)** at the **National Institute of Telecommunications (INATEL).** The selected researcher will focus on analyzing the performance of reconfigurable intelligent surfaces in wideband systems.

Project title: Advanced Performance Analysis of Reconfigurable Intelligent Surfaces in Wideband Systems through Parallel Channels.

Field of research: Antennas, Information Theory, Wireless Communications, Statistics, Probability Theory, and Machine Learning.

Number of vacancies: 1.

Scholarship duration: The scholarship spans an initial period of 12 months, with the potential for extension by an additional 12 months, based on the fellow's achievements and funding availability.

Principal Investigator: Prof. Fernando Darío Almeida García.

Responsibilities and assignments:

- Conducting cutting-edge research.
- Drafting scientific articles, patents, and research reports.
- Participation in project meetings and scientific events.
- Assisting in the guidance of undergraduate, master's, and doctoral students.
- Collaborating with other project members, taking on a leadership role in defining scientific research directions.

Requirements and qualifications:

- Ph.D. degree in electrical engineering, telecommunications, computer science, or a related field.
- Experience in antennas, statistics, probability, wireless communications, and machine learning.

- Relevant scientific publications in high-impact journals (Q1/Q2).
- Ability to conduct independent research and propose innovative solutions.

Desired Skills:

- Statistics and Probability: Proficiency in statistical methods, probability theory, communication theory, and information theory.
- Antennas and Wireless Communication: Expertise in reconfigurable antennas; metasurfaces; digital and wireless communication; physical layer technologies; multicarrier and orthogonal waveforms; MIMO systems; multiple access techniques; error-correcting codes; channel estimation; and equalization.
- Technologies: Familiarity with 5G, 6G, and IoT technologies.
- Programming Languages: Proficiency in Python, C++, C, MATLAB, and Mathematica.
- Machine Learning: Strong understanding of machine learning concepts and applications.
- Academic Contribution: Demonstrated relevant academic publications in highimpact scientific journals and flagship conferences.
- Language Skills: Advanced proficiency in English.

Application deadline:

2026/02/01 via the email @email

Send your updated CV, publication list, cover leder highlighting your experience and scientific contributions, along with two recommendation leders.

The position is open to both Brazilian and international applicants. The selected candidate will receive a **postdoctoral fellowship ranging from R\$10,000.00 to R\$11,000.00 per month**, depending on academic qualifications and performance.

- **Work schedule:** Monday to Friday, 8:00 a.m. 2:00 p.m. and 1:30 p.m. 5:30 p.m.
- **Location:** INATEL Campus, Santa Rita do Sapucaí, Minas Gerais, Brazil (Telework is possible).

Post-doctoral position within the SmartCloud INRIA project at Sophia-Antipolis or Lille, France. 14/10/2025

We seek a post-doctoral researcher to join the SmartCloud project, an ANR-funded initiative addressing critical challenges in cloud computing automation.

The position is for a period of 12 or 18 months and can be based either in Lille or Sophia Antipolis (France), with the possibility of research stays at the University of

Bologna (Italy), depending on the candidate's preferences. This flexibility is intended to encourage applications from candidates who may favor one base location or the other, including stays in Bologna/Italy. The postdoc will collaborate with the members of the OLAS INRIA research team involved in the SmartCloud project, who are based at the University of Bologna.

The SmartCloud project

Modern cloud systems require constant manual intervention from support teams who monitor thousands of components, diagnose performance issues, and coordinate complex adaptations across distributed infrastructures. This manual approach cannot scale with growing cloud demands and increasingly complex multi-cloud architectures.

The SmartCloud project develops automatic adaptation frameworks that coordinate both platform-level resource management and application-level behavioural changes. The project focuses on creating systems that can reason about component interdependencies, predict cascading effects, and execute coordinated adaptations without human intervention. SmartCloud's approach combines formal modelling techniques with practical deployment optimisation to ensure both correctness and efficiency.

Research Teams

Three research teams collaborate on this project. The OLAS team at Inria Sophia-Antipolis and the University of Bologna leads the optimisation research, bringing expertise in the automatic deployment of component-based applications and microservice architectures. The SPIRALS team at Inria Lille contributes coordination mechanisms and behavioural modelling techniques, particularly through their work on BIP coordination frameworks and OCCI cloud standards. SCALAIR, the project's industrial partner, provides real world cloud operations context through their management of virtual machines and physical systems, offering both use cases and evaluation environments.

Research Activity

The post-doctoral researcher is expected to contribute to one or more of the following interconnected research activities:

Developing constraint-solving and optimisation techniques for global cloud application deployment. The work regards developing solutions that use constraint programming and optimisation techniques to automatically generate optimal deployment plans that respect component dependencies, resource constraints, and domain-specific policies.

Designing heuristics for rapid local adaptations. This activity regards the development of knowledge-based systems that rapidly select pre-computed adaptation strategies based on monitored key performance indicators. This work particularly addresses the coordination challenges in microservice architectures, where uncoordinated scaling can create cascading failures throughout the system.

Implement prototypes that automatically translate deployment specifications into executable plans. This activity can also include developing declarative languages for specifying deployment policies and creating mechanisms that trigger specific deployment actions when performance thresholds breach acceptable levels.

Develop and assess choreographic languages for adaptation. Choreographic languages allow one to describe full distributed systems in a single artefact, focusing on the interactions between the distributed components. In particular, we are interested in building on the existing AIOCJ and Choral languages to make them suitable for adaptive multi-cloud scenarios.

Expected Candidate Profiles

We require candidates with a PhD in Computer Science, Software Engineering, or closely related fields, demonstrating expertise in formal methods, distributed systems, and cloud computing. Valuable technical skills for the profile sought after include constraint programming and optimisation techniques, proficiency in mainstream programming languages, like Java, C++, and Rust, and hands-on experience with containerisation technologies such as Kubernetes and Docker. Familiarity with microservice/serverless architectures, formal system modelling, and coordination mechanisms is also a valuable asset for the position.

Contacts and Information

Contact one of the members of the SmartCloud OLAS research unit:

Prof. Gianluigi Zavattaro (@email)

Prof. Ivan Lanese (@email)

Prof. Saverio Giallorenzo (@email)

Postdoctoral Research Position - Reconfigurable Computing Lab, Northeastern University. 08/10/2025

The Reconfigurable Computing Lab (RCL) at Northeastern University in Boston, MA anticipates an opening for a Postdoctoral Research Associate beginning in early 2026.

We seek a motivated researcher with a Ph.D. in Computer Engineering or Computer Science, or a closely related field. The ideal candidate will have strong experience with FPGAs and computer arithmetic, as the project focuses on optimizing arithmetic operations at the RTL level and related areas in reconfigurable computing.

Interested applicants should email a CV to @email. Please include:

The date you received or expect to receive your Ph.D.

A detailed description of your FPGA experience and related research background.

Additional information about the research project will be provided to qualified candidates.

Oferta predoctoral en IFMIF DONES. 07/10/2025. Fecha límite: 22/10/2025

Contrato predoctoral en Mantenimiento Remoto orientado a la "Validación de procedimientos de manipulación remota en IFMIF DONES".

La titulación exigida para el puesto es:

• Grado en Física, Ingeniería o Matemáticas y Máster en Automática, Robótica, Ingeniería Industrial, Electrónica Industrial, Informática Industrial o equivalente

La línea de investigación estaría ligada a las actividades de validación de procedimientos de Mantenimiento Remoto en IFMIF DONES, considerando las siguientes actividades:

- 1. Revisión del estado del arte de la manipulación remota.
- 2. Diseño e integración HW/SW del recinto robotizado para validación.
- 3. Desarrollo de metodologías de validación de procedimientos.
- 4. Desarrollo de planificadores de trayectorias y controladores avanzados para los manipuladores para asegurar la viabilidad de las tareas.
- 5. Validar los procedimientos de mantenimiento remoto para los principales sistemas de la planta.

Los principales criterios de adecuación al puesto son:

- Conocimiento de cinemática, dinámica y control avanzado de manipuladores seriales y paralelos.
- Conocimiento de visión por computadora, realidad virtual y diseño CAD.
- Experiencia en definición de experimentos y redacción de reportes científicotécnicos. Os agradecería si pudierais darle publicidad por si alguien de vuestro entorno pudiera estar interesado.

El plazo de presentación de solicitudes termina el 22/10/2025 y la fecha estimada de

inicio sería el 15 de diciembre de 2025.

El enlace a la convocatoria y plataforma de inscripción: CONVOCATORIA PARA UN CONTRATO PREDOCTORAL EN EL MARCO DEL PROGRAMA DONITOS (IFMIF/81) - IFMIF-DONES

PhD studentships at Edinburgh's CDT in Dependable and Deployable AI for Robotics. 06/10/2025. Fecha límite: 14/11/2025

We are advertising funded PhD places for September 2026 entry into Edinburgh's UKRI AI Centre for Doctoral Training in Dependable and Deployable AI for Robotics (CDT-D2AIR).

The robotics CDT-D2AIR application site is now live and accepting applications for the next cohort. If you know of any good candidates (or are interested yourself) please ask them to apply.

For more information about the CDT-D2AIR programme, please see: https://urldefense.com/v3/__https://www.cdt-d2air.uk/__;!!D9dNQwwGXtA!XmHsOCBpULuvoNX4j9jXwf5UFJn7E-h1-sbOHlKsbCfi5SmJyMH5_e8rZR6mBcwqP7c4j_GL2k6d\$

Information about the application process is available at (also linked to the main information page above):

https://urldefense.com/v3/__https://www.cdt-d2air.uk/apply__;!!D9dNQwwGXtA!XmHsOCBpULuvoNX4j9jXwf5UFJn7E-h1-sbOHlKsbCfi5SmJyMH5 e8rZR6mBcwqP7c4jy2Fe2Qc\$

All applications received by 14 November 2025 will be considered for the first round of evaluation for the student places. We may continue to review applications received after that date depending on how many students we are able to recruit after this (first) deadline.

Contact: @email

Postdoctoral Research Positions in HPC or Compilers. 01/10/2025

Job Description

The GMAP research group (Website: https://gmap.pucrs.br/gmap, GitHub: https://github.com/GMAP) at the Pontifical Catholic University of Rio Grande do Sul (in the southern part of Brazil) invites applications for postdoctoral positions to investigate high-performance computing techniques in distributed heterogeneous http://citic.ugr.es/

computing systems. We seek highly motivated and independent individuals eager to contribute to our research, which spans GPU programming, fault-tolerance, malleability/elasticity, compiler techniques, benchmarking, and parallel application design.

About Our Research:

Our group is a high-performance computing (HPC) research group whose core philosophy is that performance is a fundamental characteristic of computer systems. We work with applied research aiming to solve real-world problems both in academia and industry.

Ongoing research and projects include:

- Parallel application development
- Parallelization with compilers
- GPU Programming
- Stream processing systems
- Fault-tolerance
- Elasticity and Malleability
- HPC Benchmarking

As a postdoctoral researcher, you will conduct research and collaborate with master's and doctoral students in one or more of these fields. We provide mentorship on experimental design and scientific communication, supporting the development of a publication-ready body of work at the frontiers of HPC research.

Qualifications:

- Ph.D. or M.D./Ph.D. in computer science or a related field;
- Experience in one or more of the research areas of the research group;
- Proven experience in publishing scientific research at peer-reviewed conferences and journals;
- Excellent communication skills and the ability to work effectively in a team.

Desired Qualifications (not expected to have all of them):

- System languages such as C/C++ and Rust
- Scripting languages
- HPC MPI frameworks such as OpenMPI
- CUDA, OpenCL, or other GPU programming frameworks
- Clang/LLVM compiler frameworks

Scientific Environment:

The GMAP research group is situated at the Pontifical Catholic University of Rio Grande do Sul campus. The group is closely affiliated with the CIACD (Research Center in Artificial Intelligence and Data Science) and maintains active collaborations with foreign universities. Furthermore, GMAP has or has had projects/collaborations with industry partners, including HPE (Hewlett Packard Enterprise), SAP, and Petrobras. This location offers a rich, interdisciplinary ecosystem to help build your career.

Compensation and Duration:

- The salary starts from R\$10.000,00 Brazilian reais free of taxes. It depends on the qualifications of the candidate.
- The scholarship contract can be extended for up to 3 years. We seek candidates who want to make significant progress in research so that we can offer a permanent position.

How to Apply:

https://forms.gle/AMabD3BZ4wsTXXCx5

More Information:

Informal inquiries are welcome by email Dr. Dalvan Griebler at @email entitled "Application for Postdoctoral Research Position in HPC".

Post-doc position - xGMobile Inatel, Brazil. 01/10/2025. Fecha límite: 01/02/2026

POST-DOCTORAL SCHOLARSHIP SELECTION PROCESS

We are seeking a postdoctoral researcher to advance digital communications for

http://citic.ugr.es/

next-generation mobile networks. The position focuses on MIMO, multicarrier waveforms, RIS, and Al applications in the physical layer of 5G and 6G, driving innovation in future wireless technologies. The selected candidate will be responsible for communication system modeling, developing solutions to scientific challenges, carrying out computational simulations, and proposing new research lines with high scientific contribution potential.

Theme and research area

Digital communications in mobile networks (5G/6G): MIMO, multicarrier waveforms, RIS, and Al applied to the physical layer

Scholarship duration:

Each scholarship spans an initial 12-month period, with the potential for extension by another 12 months based on the fellow's achievements and funding availability.

Scholarship value:

A monthly stipend ranging from BRL 10,000 to BRL 12,000, subject to curriculum evaluation.

Main Responsibilities

- Design of mathematical models for next-generation mobile communication systems;
- Proposal of new digital communication schemes to meet the requirements of future mobile networks;
- Performance analysis using mathematical tools and computational simulations;
- Application of Al-based algorithms to improve performance, efficiency, or reduce complexity in mobile communication systems;
- Publication of scientific papers in high-impact international journals and conferences.

Mandatory Requirements

- Ph.D. in Electrical Engineering, Telecommunications Engineering, Electronic Engineering, or related fields;
- Proven research experience in topics related to this call;
- Solid knowledge in digital communications and mobile networks;
- Experience with simulation tools and artificial intelligence applied to telecommunications:
- Relevant scientific publications in high-impact journals (Q1/Q2);
- Ability to conduct independent research and propose innovative solutions.

Desired knowledge

- Experience publishing in journals such as IEEE Transactions on Communications, IEEE Communications Letters, or similar;

- Previous development of algorithms for MIMO and RIS systems;
- Participation in research projects involving multiple collaborators from different ICTs.

Application deadline

2026/02/01 via the e-mail @email.

Send your updated CV, publication list, cover letter highlighting your experience and scientific contributions, along with two recommendation letters.

Bolsa de profesores extraordinaria de Informática y Telecomunicaciones 2025-2026. 25/09/2025. Fecha límite: 28/09/2025

Entidad: CES Ramón y Cajal.

Bolsa de profesores extraordinaria de Informática y Telecomunicaciones 2025-2026

Para impartir docencia en educación secundaria, bachillerato y/o formación profesional, es imprescindible acreditar al menos uno de los siguientes requisitos:

- Titulación universitaria perteneciente al cuerpo de Informática
- Máster Universitario de Enseñanza Secundaria Obligatoria y Bachillerato,
 Formación Profesional y Enseñanza de Idiomas (MAES) o Certificado de Aptitud
 Pedagógica (CAP)

PROCEDIMIENTO:

Los interesados deben cumplimentar el autobaremo disponible en esta página web, que se activará en el plazo establecido: del 24 al 28 de septiembre del presente curso (ambos incluidos). Al finalizar, recibirán una copia del mismo en su correo electrónico.

Fechas de resolución:

- Publicación listados provisionales: Lunes 29 de septiembre
- Plazo de reclamaciones: 24 horas desde la publicación de las listas provisionales.
- Publicación listados definitivos: Miércoles 1 de octubre

Más información en: https://www.cesramonycajal.com/wp-bolsaprof/

Open PhD Position at TU Dresden, Germany. 01/09/2025. Fecha límite: 03/09/2025

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/15163/phd-position-in-fpga-design-for-ai-applications/)

At the Center for Interdisciplinary Digital Sciences (CIDS), Department for Scalable Data Analytics and Artificial Intelligence (ScaDS.Al Dresden) the Chair of Adaptive Dynamic Systems offers a position as

PhD Student / Research Associate in FPGA Design for AI Applications (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 3 years with the option of extension. 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).

The **Chair of Adaptive Dynamic Systems** conducts research in the fields of reconfigurable computing, domain-specific multi- and manycore architectures, networks-on-chip (NoCs), methods and algorithms for application parallelization, simulators and virtual platforms for application- and architecture exploration, hardware/software co-design and operating/runtime systems. Typical application domains are e.g., signal-/image processing, artificial intelligence and machine learning.

Tasks:

- research and development in designing and programming field programmable gate arrays (FPGAs) for accelerating artificial intelligence (AI) algorithms
- contributing, administrating and reporting in (inter-)national research and development projects
- presenting results at international conferences
- close cooperation with academic and industrial cooperation partners

Requirements:

- excellent university degree (M.Sc., Diploma) in either computer engineering, computer science, electrical engineering or any related natural science
- very good programming skills in C, C++
- fluency in English, knowledge of German would be a plus
- high self-motivation, commitment, and flexibility as well as the ability to work in and contribute to an international team

• a strong background in one or more of the following areas: field programmable gate arrays (FPGAs), hardware description languages (e.g. VHDL or Verilog), high-level synthesis (HLS), artificial intelligence and/or machine learning

We offer you an excellent working environment in an international team with many career development possibilities.

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. 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.

Qualified candidates are requested to submit their application including a CV, a brief proposal describing their research experience and interests and an official transcript of coursework and grades by **September 3**, **2025** (stamped arrival date of the university central mail service applies), preferably via the TUD SecureMail Portal **https://securemail.tu-dresden.de** by sending it as a **single PDF document** using the reference number **ADS_25-02** to: **ads@mailbox.tu-dresden.de** or via regular post to: TU Dresden, Fakultät Informatik, Institut für Technische Informatik, Professur für Adaptive Dynamische Systeme, Frau Prof. Dr.-Ing. Göhringer, Helmholtzstr. 10, 01069 Dresden, Germany. 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

PhD position in Robotics Vision, Dubai. 01/09/2025

We are offering a PhD position within our CDT on Structure-from-Motion (SfM), funded by Expo City Dubai. To encourage more applicants, we are currently extending the application deadline.

Further information about the CDT is now live on our website: Centre for Doctoral Training in AI and Robotics Innovation | Heriot-Watt University. This page also contains a link to a detailed description of the SfM project, the specific requirements, and instructions on how to apply, which can be found here: PhD in Robotic Vision | Heriot-Watt University.

I am reaching out to kindly ask for your support in sharing an exciting PhD opportunity within our research team at Heriot-Watt University Dubai. We are

recruiting for a highly competitive, fully funded PhD position focused on
"Next-Generation Al-Powered Structure-from-Motion (SfM) for Large-Scale
3D Reconstruction."

Project Overview:

This research aims to develop cutting-edge SfM pipelines that leverage artificial intelligence to improve feature extraction, matching, and 3D reconstruction speed, building on tools like COLMAP and exploring novel deep learning architectures suitable for large-scale and complex environments. The work will have significant applications in construction, asset management, robotics, AR/VR, cultural heritage, and geospatial analysis.

Funding and Collaboration:

The project is fully funded by Expo City Dubai, providing the opportunity to collaborate with a leading smart city developer and work on innovative, real-world applications. This partnership offers a unique chance to engage with industry leaders and contribute to cutting-edge technology development in a vibrant, forward-looking environment.

Key Details:

- The project is scheduled to begin in the last quarter of 2025.
- The candidate will receive a competitive annual tax-free stipend of at least USD 30,000.
- Additionally, an annual budget of USD 11,000 is available to the student for consumables, publications, summer schools, conferences, and research expenses.
- The position is based in Dubai, and relocation will be required.
- The duration of the PhD is 4 years.

Why Pursue a PhD in Dubai?

Dubai is rapidly emerging as a global hub for innovation and technology, offering a dynamic, multicultural environment for research and professional growth. The city combines modern infrastructure, a vibrant lifestyle, and close ties to industry leaders and government initiatives in AI, robotics, and smart city development. Pursuing a PhD here not only provides access to world-class facilities and collaborations but also positions you at the heart of a region committed to technological advancement and sustainable urban development.

The UAE Lifestyle:

The UAE offers a high standard of living characterized by a blend of modern luxury and rich cultural heritage. Known for safety, quality education, and vibrant social life, it provides numerous leisure activities, supporting a healthy work-life balance. While

the cost of living varies, many enjoy access to both affordable and luxurious lifestyles, making it an attractive environment for professional and personal development.

Ideal Candidate Profile:

- Candidates should have or be expected to complete their Master's degree with merit or distinction in Computer Science, Engineering, Robotics, or related fields before the end of this year.
- Bachelor's degree with a minimum of 2:1 (first class preferred).
- Strong background in mathematics, optimization, and computer vision.
- Good coding skills in Python and ROS2 are preferred.
- Prior experience in SfM or computer vision is advantageous but not mandatory.

For more information and application details, please see the project overview and application link on our LinkedIn post [Link] and website [CDT, Application].

NHR Graduate School 2026 - 9 PhD scholarships for HPC, Numerical Simulations, and AI/ML projects. 29/07/2025. Fecha límite: 15/09/2025

The NHR Graduate School for HPC Talents

9 PhD scholarships for HPC, Numerical Simulations, and AI/ML projects

https://www.nhr-verein.de/en/graduate-school

Application Deadline: September 15, 2025 Apply here: https://form.nhr-verein.de/

The NHR Graduate School seeks qualified applicants interested in pursuing a PhD project in HPC, numerical simulation, and Al/ML.

Fellows will receive a three-year full-time scholarship and excellent supervision at one university/research institute of the NHR Alliance in Germany.

About the NHR Graduate School

The NHR Graduate School (https://www.nhr-verein.de/en/graduate-school) is a joint graduate school of the National High-Performance Computing Alliance (https://www.nhr-verein.de/en/our-structure) in Germany. The NHR Alliance consists of nine computing centers, combining resources and expertise of high-performance computing in Germany.

For further information, please have a look at our image film: https://www.youtube.com/watch?v= KlOzV8egsA

Application

Visit the NHR Graduate School application website (https://www.nhr-verein.de/application

http://citic.ugr.es/

) on this year's interesting research topics (https://www.nhr-verein.de/sites/default/files/2025-06/GradS_2026_Research_Fields_0.pdf) and submit your application here (https://form.nhr-verein.de/) for the 5th cohort of the NHR Graduate School.

Application deadline: September 15, 2025

- Start of funding: April 01, 2026

- Workplace Type: onsite

Job type: full-timeDuration: 3 years

Qualification/Skills and Experience

The NHR Graduate School welcomes applications from individuals with a master's degree in the following fields:

- Computer Science
- Mathematics
- Natural or engineering sciences or an equivalent degree, interested in High-Performance Computing

Benefits

- A monthly salary of €2.200 for 36 months
- Supervision by internationally recognized scientists at one of the universities/research institutes of the nine NHR Alliance partners
- Research visits at an alliance partner university (Secondment)
- Collaboration on groundbreaking research projects
- Free participation in the annual NHR Summer School
- Free participation in the annual NHR conference
- First-class training programs and workshops conducted by renowned experts, teaching the latest knowledge and skills in HPC
- Career guidance
- Networking events with like-minded individuals, professionals, and researchers in the HPC community
- Alumni network

Contact Information

We are here to assist you with any further questions about the NHR Graduate School and the application process.

Don't hesitate to contact us via: @email.