

Open RESEARCH POSITIONS at AtlantTIC Research Center

AtlantTIC Research Center for Information and Communications Technologies (atlanttictic.uvigo.es/en) affiliated with the University of Vigo, Spain, invites applications for **PhD positions, junior engineer positions and postdoctoral positions** in **Computer Science and Electrical Engineering**. AtlantTIC integrates several worldwide reference groups in different fields of telecommunications. This fact is supported by international publications (more than 80 journal papers and more than 200 conference publications in 2013), awards to the defended Ph. D. theses (several Best Ph. D. Thesis Awards of the Spanish Official Institute of Telecommunications Engineers), significant research projects' income (about 25 million euros in the last five years) and some of its members being Associate Editors of IEEE Transactions. The selected candidates will join the different research groups in AtlantTIC to investigate in any of the following areas:

- Signal Processing
- Digital Communications
- Radiocommunications
- Electromagnetic Engineering
- Biomedical Engineering
- Networks and Telecommunication Services

Positions are funded by the participation in several research projects. Participation to workshops, conferences, and project meetings is expected.

CONTRACT CONDITIONS

Initial appointment for one year, with annual renewal subject to performance. Expected start date is February 2014.

APPLICATIONS

Interested candidates may apply to atlanttictic@gts.uvigo.es. Phone: +34 986 818656.

Applications should include electronic copies of the following:

- A detailed Curriculum Vitae. (*Please include your e-mail address and a recent picture.)
- A cover letter addressing the specified job qualifications.
- A letter of recommendation by a senior Professor/Researcher.
- A copy of the publication deemed as best representative of the candidate's creative research (only for PhD positions).

Applications will be reviewed on a continual basis until all positions are filled.

DESIRABLE BACKGROUND FOR ALL POSTDOC POSITIONS

- A Ph.D. degree in Electrical Engineering is required;
- Knowledge and experience in any of the areas mentioned above;
- Good verbal and written skills in English are required;
- Strong publications in international conferences and journals in any of the mentioned areas;
- Postdoctoral experience in a recognized group with expertise in the field is a plus;
- Experience in the organization, management and training of technical staff/students is a plus;
- Communication, computing and interpersonal skills are important;
- Capacity to work both independently and within a team.

DESIRABLE BACKGROUND FOR ALL JUNIOR POSITIONS

- A M.Sc. degree in Electrical Engineering or Computer Science is required;
- Good verbal and written skills in English are required;
- Communication, computing and interpersonal skills are important;
- Capacity to work both independently and within a team;

SPECIFIC REQUIREMENTS

Junior positions

Reference	Requirements
PhD1	2 PhD positions in cognitive and software defined radio. Signals processing and digital communication skills are a must; programmable logic skills are recommended.
PhD2	4 PhD positions in signal processing in communications; signal processing and digital communications knowledge is a must.
PhD3	4 PhD positions in multimedia security. Signal processing skills are recommended.
PhD4	2 PhD positions in biomedical signal processing. Signal processing skills are a must.
PhD5	1 PhD position in remote sensing. Signal processing skills are a must.
JE1	1 junior engineer: data bases, connectivity and security skills.
PhD6	2 PhD position: C++ and specialized libraries skills.
PhD7	2 PhD position: Data Bases knowledge and Java/Scala skills.
PhD8	2 PhD position: javascript skills; experience with web technologies for visualization.
JE2	4 junior engineers: experience working in projects as a programmer in a development team. Experience with imperative programming languages is a must. Different profiles will be recruited. The main areas of interest for the project will require experience with relational database and web-based systems programming, machine-learning techniques, image, audio and speech processing.
JE3	2 junior engineers: experience in semantic web; web engineering, data bases, Android and IOS skills.
JE4	3 junior engineers: programming skills are a must; knowledge of network protocols, wireless networks, video and multimedia distribution is recommended.
JE5	1 junior engineer: Experience in EM characterization and measurements: Material characterization at millimeter and submillimeter, THz and optical bands and EMC and radiating systems characterization in anechoic chambers
PhD9	1 PhD position in Antenna design at millimeter, submillimeter and THz bands.
PhD10	2 PhD positions in Computational Electromagnetism and its application to nanotechnology (metamaterials, plasmons, etc.).
PhD11	2 PhD positions in Design and optimization of THz setups and associated electronics.
PhD12	2 PhD positions in Radiocommunications.
JE6	2 junior researchers in Radiocommunications.
PhD13	3 PhD positions in network programming. Math programming and simulation skills are recommended.

Senior positions

Reference	Requirements
PD1	1 Postdoctoral position: Expertise in data analytics is a must; experience in PLN, big data and/or social media analytics is recommended.
PD2	1 Postdoctoral position: Expertise in affective computing; text, facial and speech analysis under uncontrolled conditions (social media) is recommended.
PD3	1 Postdoctoral position: several years of experience working in IT R&D projects and experience as a postdoc managing programmer's teams. The candidate should have excellent programming skills and large experience on developing code for the main O.S.s in the market (Windows, Linux, MacOS, Android, iOS). Experience on multimedia processing, both in scientific publications and products development, will be highly recommended.
PD4	1 Postdoctoral position: expertise in wireless and mobile networks. Knowledge in Cognitive Networking, Multimedia Distribution, Software Defined Networking, Multicast for wireless networks and/or Video Coding will be considered.
PD5	1 Postdoctoral position: experience in signal processing and digital communications is a must.
PD6	1 Postdoctoral position: experience in design and optimization of THz setups and associated electronics and measurement and analysis methods. PhD in Physics, Applied Physics or Electrical Engineering, completed in the last 3 years. Ability to design and/or modify electronics ad-hoc. Several years of experience in materials modelling and characterization, with significant scientific production on this area. Willing to travel.
PD7	1 Postdoctoral position: expertise in networking technologies of interest for 5G communications. Knowledge in Cellular Networking, Multihop Networks, Advanced Wireless Protocols and/or Network Optimization will be considered.