

## NOTICE OF POST-DOCTORATE GRANT

Reference 01\_2016\_DAC-AE

A competition has been opened to award a **Post-doctoral grant** in the context of the research project "Trends in retail prices for residential customers in the electronic communications sector". The Grant is funded directly by Autoridade Nacional de Comunicações (ANACOM) in accordance with the following conditions:

### **Scientific area:**

Industrial economics, economics of regulation, econometrics and mathematics applied to economics and management.

### **Admission Requirements:**

The grant is to be awarded to a candidate who holds a PhD degree in economic and mathematical sciences obtained from a reputed national or foreign academic institution within the last six years, and who has developed research using advanced econometric techniques.

Operational proficiency in English and in Portuguese is required.

Preferred Conditions: preference will be given to candidates who have published relevant articles related to the subject of the research and who have professional experience in the field.

### **Purpose and work plan:**

The general objective of this research project is to develop methodologies and analyses which enable a robust empirical evaluation, where possible broken down by electronic communications service provider, of trends in the retail prices of different bundles of electronic communications services offered to residential customers<sup>1</sup> combining, specifically, at least two of the following services: fixed telephone service, mobile telephone service, fixed broadband Internet access service, mobile broadband Internet access service or subscription television distribution service. Assessment must also be made of the evolution in the average price of mobile services offered on a stand-alone basis and the overall evolution of the average price paid by residential customers.

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<sup>1</sup> The research will have to take into account the different possible approaches to defining the object of study, as well as the impact that other offers may have on the object of study, particularly in relation to compound offers.

The work plan must involve, in particular, execution of activities that seek to analyse:

- a) The factors with positive or negative influence on the evolution of the retail prices of services which comprise the object of study;
- b) When possible and preferably using billing data, the evolution of retail prices of offers comprising the object of the study in different geographical areas of the country (including urban areas, semi-urban areas and rural areas, and broken down between the Portuguese mainland and Autonomous Regions);
- c) Comparison between the retail prices practiced in a limited number of other countries of reference at European and international level and the retail prices practiced in Portugal over the same period of time<sup>2</sup>;
- d) Control factors in the price comparison, particularly as regards quality and the characteristics of the service, such as, for example:
  - Classes of upload speed and download speed in the broadband Internet access service;
  - Latency in the broadband Internet access service;
  - Number and type (e.g. premium) of channels offered in the context of the subscription television distribution service;
  - Existence and duration of contract lock-in periods;
  - Subsidies provided for terminal equipment;
  - Marginal utility of each service/service component included in the contracted bundle;<sup>3</sup>
  - Any voice traffic or data traffic plafond included in each offer, including, where relevant, traffic limits linked to applications and content services (over the top services - OTT);
  - Type and number of services included in each offer (in the case of mobile services, the number of mobile telephone service cards, the number of mobile broadband accesses and international roaming services).

In the development of the research work, an outline should be given of the regulatory framework applicable to the electronic communications sector, in particular:

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<sup>2</sup> In this context, note must be made of the rates of value added tax (VAT) applied in each country, the relevant details of each tariff plan, any incentives offered by each provider of electronic communications services for subscription to a particular tariff plan and, where possible, an estimate of the number of subscribers for each service/bundles of services in each country.

<sup>3</sup> For this purpose, the researcher must, in addition to the billing data from electronic communications services, make use, in particular, of statistical data published by ANACOM, the results of surveys and a review of available academic literature.

- a) *Lei das Comunicações Eletrónicas* (Electronic Communications Law - Law no. 5/2004 of 10 February<sup>4</sup>);
- b) European Commission Recommendation of 9 October 2014 on relevant product and service markets within the electronic communications sector susceptible to ex ante regulation in accordance with Directive 2002/21/EC of the European Parliament and of the Council on a common regulatory framework for electronic communications networks and services<sup>5</sup>;
- c) The developments resulting from the proposals under discussion in the context of the Digital Single Market (DSM).

Consideration must also be given, within the scope of the work developed, to the evolution of technologies (with regard to both fixed networks and mobile networks) and patterns in supply and demand (with particular regard to phenomena associated with fixed-mobile convergence and to the download of mobile traffic on Wi-Fi networks).

#### **Applicable legislation and regulations:**

The grant is awarded under Law no. 40/2004 of 18 August (Statute of Scientific Research Grants) as presently worded and under *Regulamento de concessão de bolsas de investigação e pós-doutoramento da ANACOM* (ANACOM Regulation on the award of research and post-doctoral grants)<sup>6</sup>.

#### **Place of work:**

The work will be carried out principally on ANACOM's premises and may involve occasional travel.

#### **Duration of the grant:**

The grant will have a duration of 12 months, commencing in December 2016. The contract governing the grant may be renewed for up to a maximum of two semesters, subject to fulfilment of stipulations as under ANACOM Regulation on the award of research and post-doctoral grants.

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<sup>4</sup> As subsequently amended by Decree-Law no. 176/2007 of 8 May, Decree-Law no. 123/2009 of 21 May, Decree-Law no. 258/2009 of 25 September, Law no. 35/2008 of 28 July; as amended and republished by Law no. 51/2011 of 13 September; with addendum made by Law no. 10/2013 of 28 January (article 52-A - Suspension and termination of the service provided to consumer subscribers); as amended by Law no. 42/2013 of 3 July (articles 45 and 113); as amended by Decree-Law no. 35/2014 of 7 March (repealing Article 124 - concessionaire); and as amended by Law no. 15/96 of 17 June.

<sup>5</sup> Available at <http://www.anacom.pt/render.jsp?contentId=1336427>.

<sup>6</sup> Available at <http://www.anacom.pt/render.jsp?categoryId=380370>.

**Monthly value of grant:**

The maximum value of the grant is €1,495 (one thousand four hundred and ninety-five euros), in accordance with the table referred to in article 15 of ANACOM Regulation on the award of research and post-doctoral grants. Payment of the grant will be made on a monthly basis, by bank transfer.

**Selection method:**

The base selection factor will be the quality of the candidate's curriculum, with a focus on work accomplished within the scope of this competition. Furthermore, the Selection Panel may, at its discretion, require an interview, which will be in person or by videoconference or equivalent means.

The following elements will be valued on a scale from 0 to 100, with the following valuation:

- a) Curriculum evaluation and suitability of candidate's profile to the work plan - 75%;
- b) Evaluation of candidate's letter of motivation in accordance with the type of work to be carried out - 25%;
- c) Should it be considered necessary to conduct an interview, this will have a total weight of 20%, whereby the items listed in a) and b) above shall have weights of 60% and 20%, respectively.

**Composition of candidate selection panel:**

The candidate selection panel will have the following members:

- Prof. Doutora Fátima Barros (Chair of ANACOM's Board of Directors);
- Prof. Doutor Hélder Ferreira Vasconcelos (Member of ANACOM's Board of Directors);
- Prof. Doutor João Manuel Lourenço Confraria Jorge e Silva (Member of ANACOM's Board of Directors).

The following will act as alternate members on the candidate selection panel:

- David Alexandre Bicho Jorge (Senior Technician, ANACOM);
- Dr. Carlos Jorge Almeida da Costa (Principal Consultant, ANACOM);
- Eng.º João Miguel Montes Alves de Castro (Principal Consultant, ANACOM);

**Publication/notification of results:**

The final results of the evaluation will be announced by means of alphabetically ordered list published on ANACOM's website. The successful candidate will be notified by email.

**Application deadline and submission of applications:**

The competition is open from the **19 September to 31 October 2016**.

Applications must include a letter of motivation and the following supporting documents:

- a) Copy of identification document;
- b) Certificate of academic qualifications with final classification;
- c) Work plan to be developed;
- d) Detailed Curriculum Vitae;
- e) List of publications and copies of most relevant works;
- f) Email address and contact telephone number.

Applications which do not include all these items will not be considered.

Applications must be delivered and formalised by email using the following address:

Bolsas@anacom.pt

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Lisbon, 8 September 2016