

ANUNCIO DE POSIBILIDAD DE BECA DE TESIS DOCTORAL

1) The Catalan Government has issued a Call targeted to graduate students who want to pursue their career towards a PhD: Grants for the recruitment of early-stage research staff (FI 2019).

All information about this Call can be found in the following link (in English):
<http://agaur.gencat.cat/en/>

(2) The Spanish Government has issued a Call targeted to graduate students who want to pursue their career towards a PhD: Ayudas para la formación de profesorado universitario, para el año 2019

All information about this Call can be found in the following link (in Spanish):
<http://www.mecd.gob.es/>

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Applications are invited for:

- two (2) fully-funded three-year (3-years) PhD student position at the Group on Interactive Coding of Images (GICI) (www.gici.uab.cat) at Universitat Autònoma de Barcelona (www.uab.cat) on the topic of data compression / source data coding.

The UAB occupies the 12th position worldwide among universities created less than 50 years ago, the highest-ranked university in Spain, according to the fifth edition of the yearly 150 Under 50 Rankings published by the Times Higher Education.

** Topic description:

The two (2) PhD positions are related to an on-going research project that investigates novel techniques for source coding, mostly intended for remote sensing data.

Original and novel developments on recent coding paradigms, including graph wavelets, inpainting-based, compressed data structures, as well as on wide-spread coding techniques,

for lossy, near-lossless and lossless compression are envisaged.

Successful candidates are expected to contribute innovative work to improve the coding performance and the coding efficiency for, among others, current sensors (AVIRIS, Landsat 8, IASI, Hyperion, Sentinel 1/2,..), forthcoming sensors (AVIRIS-NG, Landsat 9, IASI-NG, Sentinel 3, ..), and for both on-board and on-the-ground scenarios. Other data types (e.g. light-field images, SAR data, ...) can also be considered.

Both theoretical and practical results are anticipated.

**** Number of Awards:**

- 1 for the grant funded by the Catalan Government;
- 1 for the grant funded by the Spanish Government.

**** Tentative start date and duration:**

- March 2019, for 3 years, for the grant funded by the Catalan Government;
- March 2019, for 4 years, for the grant funded by the Spanish Government.

**** Application dates:**

- The deadline for submitting applications is next October 25, 2018, for the grant funded by the Catalan Government;
- The deadline for submitting applications is next October 29, 2018, 14h, for the grant funded by the Spanish Government.

**** Sponsors:**

- Catalan Government;
- Spanish Government.

**** Eligibility Criteria:**

- Applicants should have, or expect to achieve, a Bachelor Degree of at least 300 ECTS or a University Master Degree or equivalent (Spanish Law 14/2011, June 1, 2011).
- Applicants should have completed the studies for admission to a doctoral programme between 1 January 2016 and the time of submission of the

application.

- Applicants should have an average mark of 6.50 or above (on a scale of 0 to 10).
- For the grant funded by the Spanish Government, applicants should have a B2 level of Spanish language if their native tongue is not Spanish.
- Applicants should be highly motivated and should have a strong background in computer science, electrical engineering, mathematics, or a related discipline.
- Good computational skills and experience in a major programming language such as C++ or Java are required.

** Characteristics of awards:

Please see Call at

(1) For the grant funded by the Catalan Government:

<http://agaur.gencat.cat/en/>

(2) For the grant funded by the Spanish Government:

<http://www.mecd.gob.es/>

** Value of awards:

(1) For the grant funded by the Catalan Government:

The total annual amount of the grant per year is:

- first year: €14,700 gross, payable in 12 monthly instalments that include the pro-rated bonus payments;
- second year: €16,000 gross, payable in 12 monthly instalments that include the pro-rated bonus payments;
- third year: €16,000 gross, payable in 12 monthly instalments that include the pro-rated bonus payments;
- funding for a research stay abroad: €3,000.

(2) For the grant funded by the Spanish Government:

- a monthly stipend of €1.173 plus two extra payments per year

** How to apply

- Fill in the form and attach the required documentation at

(1) For the grant funded by the Catalan Government:

<http://agaur.gencat.cat/en/>

(2) For the grant funded by the Spanish Government:

<https://sede.educacion.gob.es/>

** Contact

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