

## PHD SCHOLARSHIP APPLICATION FORM CALL 2016

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ORGANISATION	<b>AZTI</b>
Business Area	Efficient and Cost-effective Processes
Location of scholarship Province/Building	Astondo Bidea, Edificio 609 - Parque Tecnológico de Bizkaia 48160 - Derio (Bizkaia)
Lecturer:	Ms Idoia Olabarrieta

### DESCRIPTION OF SCHOLARSHIP

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**Title: Application of analytical process technology to assess food quality and efficiency**

**Short description of Scholarship:**

Work included in this line will be oriented to developing monitoring, classification, on-line and non-destructive control techniques of food products/processes with the aim of improving processing as per product quality and increasing production process efficiency.

Work involves a high information capturing component through different sensor system techniques, mathematical / statistical / IT data processing and subsequent generation of algorithms, predictive models, which will become an essential part of new and innovative automation; as well as industrial process enhancements in the food sector based on artificial intelligence.

The candidate will work with data obtained from non-destructive sensor system techniques (NIR, microwave, artificial vision, etc.), chemometrical analysis, data processing/mining, statistics and proposing industrial solutions at different scales.

**Requirements:**

To do so, the candidate should meet the following requirements:

- Qualifications and speciality: Computing Engineering; Agricultural Industrial or Electronic Engineering; Food Science and Technology
- Languages: (fluency level) high level of English.

- Others: Knowledge of chemometrical analysis, process analytic technology, data mining / treatment, statistics, process engineering will be an advantage.
  
- The following will also be an advantage:
  - Master studies (completed or in progress) on:
  
  - IT systems and languages
  
  - Industrial automation and monitoring
  
  - Analytic process technology

- Others:

The ideal candidate should have flexibility to adapt to different situations and scientific-technological challenges; with a high degree of initiative and proactivity to search for solutions; ability to combine knowledge in his/her knowledge environment with other environments to identify and develop innovative solutions. Availability to travel (secondments, congresses, etc.); and a valid driving licence.