

JOB PROFILE

CALL FOR RECRUITMENT OF PERSONNEL N° Conv._FIHAC_04_2020

POSITION	Predoctoral Researcher
MOTIVATION	<input type="checkbox"/> Annual programming <input checked="" type="checkbox"/> Project: SATURNALIA-Non-Stationary techniques for the analysis of climate impacts
ENTITY OF ADMINISTRATIVE DEPENDENCY	<input checked="" type="checkbox"/> Fundación Instituto de Hidráulica Ambiental de Cantabria <input type="checkbox"/> Universidad de Cantabria
DIVISION	Project development and implementation
AREA DEPENDENCE	Climate, Energy and Marine Infrastructures

REQUIRED PROFILE

GENERAL MISSION	ESSENTIAL JOB FUNCTIONS
CONCEPTION OR CREATION OF NEW THEORIES, KNOWLEDGE, PRODUCTS, AND TECHNIQUES PERFORMED ON A DOCTORAL THESIS	<p>GENERAL TASKS Elaborate, under the supervision of the thesis advisor, his/her own doctoral thesis that allows for the broadening of scientific knowledge, creating new theories or modifying existing ones. Collaborate in the area of study, under the supervision of the thesis advisor or the project manager, and assessment of a given project.</p> <p>SPECIFIC TASKS Analysis of optimal integration strategies for the characterization of different hydrometeorological and metoceanic variables and data sources Analysis of several methods to incorporate spatial dependence in the characterization of climatic variables Development of methods to quantify low-probability extreme events (high return period), focused on the evaluation of impacts of environmental variables, accounting for non-stationary behaviour and the climate change challenge</p>

EDUCATION REQUIREMENTS

UNIVERSITY DEGREE	FIELD OF STUDY	EXPERIENCE	OTHER QUALIFICATIONS
PhD	Biology, Environmental Science, Civil Engineering.	No	

ASSESSMENT ELEMENTS

ASSESSMENT ELEMENTS	
	<ul style="list-style-type: none"> -Average grades on the bachelor's degree -Average grades on the master's degree -Awards and grants -Internships, both professional and research-oriented, as well as voluntary services -Specific education on meteorology, oceanography, hydrology or statistics -Specific education on mathematical and statistical techniques -Experience in computer programming -Experience dealing with and processing databases -English level

CONTRACTING PROPOSAL

TYPE OF CONTRACT	Predoctoral researcher
ESTIMATED DURATION ¹	12 months
LOCATION OF WORKPLACE	<input checked="" type="checkbox"/> Santander- Spain (IH Cantabria) <input type="checkbox"/> Other:
REMUNERATION	17.785,00€/ gross annual salary (12 payments)
COMMENCEMENT DATE	September 21, 2020

CHARACTERISTICS OF THE RECRUITMENT AND SELECTION PROCESS

TYPE OF PROCESS	Open competition	Código: Conv._FIHAC_04_2020	
POSITIONS	1 (initially planned)		
RECRUITMENT PROCESS	Ad publication in FIHAC webpage: July 24, 2020		
	Recruitment process closing date: September 08, 2020 at 13:00 hours		
PRE-SELECTION	Expected date for pre-selection: September 08, 2020		
SELECTION TEST	<input type="checkbox"/> Date for the test	Maximum of applicants:	
JOB INTERVIEW	Expected date for job interviews: September 10, 2020	Maximum of applicants: 10	Minimum score ² : 25
REPORT	Expected date for final report: September 10, 2020		
FINAL DECISION	Expected date for final decision: September 10, 2020		
RESOLUTION	Vice President of the Environmental Hydraulics Institute Foundation		

¹In cases of temporary contracts

²Score obtained by the assessment of merit, minimum (threshold) required for a / a candidate / a pass to the phase of the interview

SCORING INFORMATION/ CANDIDATE MERITS				
MERITS	EVALUATION	ASSESSMENT		MAXIMUM
AVERAGE GRADES ON THE BACHELOR'S DEGREE	CV VITAE	COMPLIANCE REQUIREMENTS	10 Point(s)	10
An academic cv must be presented, showing the grades obtained in the degree. Average grades below 7 over 10 (In the case of degrees obtained abroad, the table of equivalences of the Resolution of July 16, 2008, of the Directorate General of Universities will be applied) do not grant any points. Averages between 7 and 8 get 3 points; between 8 and 9 get 6 points; between 9 and 10 get 9 points; an average of 10 gets 10 points)		Maximum points: 10		
AVERAGE GRADES ON THE MASTER'S DEGREE	CV VITAE	COMPLIANCE REQUIREMENTS	10 Point(s)	10
An academic cv must be presented, showing the grades obtained in the degree. Average grades below 7 over 10 (In the case of degrees obtained abroad, the table of equivalences of the Resolution of July 16, 2008, of the Directorate General of Universities will be applied) do not grant any points. Averages between 7 and 8 get 3 points; between 8 and 9 get 6 points; between 9 and 10 get 9 points; an average of 10 gets 10 points)		Maximum points: 10		
AWARDS AND GRANTS	CV VITAE	NUMBER OF AWARDS/GRANTS	2 Point(s)	2
They must be certified by the company or the institutions granting the award or the grant. (1 point per element)		Maximum: 2		
INTERNSHIPS, BOTH PROFESSIONAL AND RESEARCH-ORIENTED, AS WELL AS VOLUNTARY SERVICES	CV VITAE	NUMBER OF INTERNSHIPS	12 Point(s)	12
They must be certified by the institution where the internship was developed. Two points will be granted for every month of internship		Maximum: 6		
SPECIFIC EDUCATION ON METEOROLOGY, OCEANOGRAPHY, HYDROLOGY OR STATISTICS	CV VITAE	NUMBER OF SUBJECTS OR COURSES	4 Point(s)	4
The merit must be certified by means of courses of at least 20h. Each course will grant one point for courses until 30h, and two points above that threshold		Maximum: 4		
SPECIFIC EDUCATION ON MATHEMATICAL AND STATISTICAL TECHNIQUES	CV VITAE	NUMBER OF SUBJECTS OR COURSES	4 Point(s)	5
The merit must be certified by means of courses of at least 20h. Each course will grant one point for courses until 30h, and two points above that threshold. Some examples for this merit would be extreme value analysis, data mining, machine learning, deep learning, etc.		Maximum: 4		
EXPERIENCE IN COMPUTER PROGRAMMING	CV VITAE	COMPLIANCE REQUIREMENTS	5 Point(s)	5
The different programming languages used must be listed and the experience certified by the institutions where the developments took place or by sending codes developed by the candidate. Specific courses on programming, of at least 30h will be considered. The maximum evaluation is achieved certifying one year of experience in programming or 120h of courses		Maximum points: 5		
EXPERIENCE DEALING WITH AND PROCESSING DATABASES	CV VITAE	COMPLIANCE REQUIREMENTS	5 Point(s)	5
Any task related to the processing of data, climatic or other kinds, and working with databases will be considered. The experience will be certified by the institutions where the developments took place or by sending the results developed by the candidate. The maximum evaluation is achieved certifying one year of experience or by certifying at development of at least two tasks of, at least, a duration of one month		Maximum points: 5		
ENGLISH COMMUNICATION SKILLS	CV VITAE	COMPLIANCE REQUIREMENTS	5 Point(s)	5
English Skills will be certified by a recognized institution and CEFR accreditation levels (C1: 3 points; C2: 5 points)		Maximum points: 5		
MAXIMUM SCORE SPECIFIC ASSESSMENT				57
MAXIMUM SCORE IN THE INTERVIEW				29
MAXIMUM TOTAL SCORE				86

GUARANTEE AND ASSESSMENT COMMISSION FOR THE RECRUITMENT PROCESS

Signature:

Approved: Raul Medina Santamaria, Vice president

Date: July 24, 2020