

## **Research Assistant for innovation Fondef Project**

A 18-months research assistant, starting January 1, 2020, is available in the field of water resource management and agricultural sustainability over semi-arid regions supervised by Prof. Cristian Mattar ([biosfera.uchile.cl](mailto:biosfera.uchile.cl)) and Prof Rodrigo Fuster ([lat.uchile.cl](mailto:lat.uchile.cl))

### **Description of the scientific environment and background**

In Chile, water is a private good which generates a strong pressure on daily lives affecting the agriculture system and making the ecosystems less resilience for water scarcity scenarios. The Copiapó Valley gathered different uses such as mining activities and agriculture, although water availability is scarce for both uses including also water consumption per habitant. Thus, we study the water resource management at catchment scale using a combination of meteorological instrumentation, remote sensing monitoring approaches and water management framework for water use efficiency and sustainability.

### **Project description**

The project is based on the research project “**Transfer system of real crop evapotranspiration model for sustainable water management**” funded by Fondef-IT program. The successful candidate will study the balance of water movement between evapotranspiration, agricultural management and water framework at catchment scale. This balance is crucial in the context of water scarcity and drought, since water is a limiting resource and its is regulated by market baselines.

### **Qualifications**

Candidates must have at least a doctor's degree, obtained after 2014, in the environment, geography, water resources management, agricultural sustainability, remote sensing or a similar degree with an academic level equivalent to a doctorate.

- Expertise and/or strong interest in water resources
- Previous ISI publications
- Previous Congress or Symposium Publications
- English language skills
- Spanish language skills

### **Responsibilities and tasks**

The position is available for a 18-months period and the responsibilities are:

- Publish in international peer reviewed journals at least 2 ISI papers
- Participate in conferences
- Participate in open lecture for local community  
Generate new projects or innovation proposals.
- Teach and disseminate your research

### **Approval and Enrolment**

The accepted candidate will be enrolled in one of the general research programmes at the University of Chile participating in all the activities carried out in Antumapu Campus.

### **We offer**

We offer a rewarding and challenging job for people who dare to be part of a new generation of changing world.

### **Salary and appointment terms**

The salary is US \$2700\* per month (taxes included)

**Application**

Please submit an email to [cmattar@uchile.cl](mailto:cmattar@uchile.cl) and [rfuster@uchile.cl](mailto:rfuster@uchile.cl) containing in the subject "Posission Fondef" no later than **20 December 2019 (00 UTC)**. Candidates must submit **one PDF file** containing all materials to be given consideration including:

- A letter motivating the application (cover letter)
- Curriculum vitae
- Grades BSc/MSc/PhD diploma

Candidates e-mail's received after the deadline will not be considered.

All interested candidates irrespective of age, gender, race, disability, religion or ethnic background are encouraged to apply.

\*Estimated amount according to the value of the Chilean currency at the 28th of 2019