

## Application guidelines

2024 Postdoctoral Application - ANID Anillo Research Project N. ATE230035

The call aims to hire **1 (one) Postdoctoral Researchers** who are going to work in the Anillo Project ANID/ATE230035, named “Sea Harbor Operations with Renewable Energies (SHORE)”, led by **University of Chile and University Andres Bello**, carrying out research aligned with the project framework. More details about the SHORE project can be found in the document attached to this call.

### Duration:

The duration of the contract will be annual, renewable until the end of the project (3 years), subject to performance.

### Benefits:

The Postdoctoral Researcher contract considers the payment of CLP \$2,000,000- before taxes per month (CLP \$24,000,000 annual gross salary).

### Successful applicant duties:

The SHORE Project Postdoctoral Researcher hired under this call must:

- Publish at least one Web of Science (WoS) scientific article (Q1 or Q2) yearly for the duration of the contract.
- Apply to ANID Fondecyt Postdoctoral project during the first year of the contract.
- Participate in all the dissemination and outreach activities considered in this project for this position.

### Applicant Requirements:

- Availability to work full-time in the city of Santiago (Chile), in the University of Chile and University Andres Bello.
- Availability to travel within Chile and abroad, whereas necessary for the project execution.
- Not having full-time employment or having another postdoctoral subsidy during the duration of the contract.
- Being in possession of Chilean Nationality or residency, compliant with Chilean immigration law.
- Having a PhD degree in Electrical Engineering or similar by March 2024.
- Demonstrate scientific productivity in Q1 and Q2 journals in the last 5 years.

### Mandatory Knowledge and Skills:

- Excellent oral and written English communication skills, including the ability to communicate with clarity on complex information. A good level of writing for papers and academic work is highly desired.
- Demonstrable skills and knowledge (in the form of published work and PhD thesis) in the field of Electrical and Electronics Engineering or similar.
- Analytical ability to facilitate conceptual thinking, innovation and creativity.
- Ability for independent research within the context of a team.
- Computer programming skills in Matlab, PLECS, Python or similar.
- Experimental and hands-on skills for designing and implementing experiments in electrical and electronics engineering are required.

### Desired Knowledge and Skills:

- Experience working with Hydrogen generation and storage, Power Electronics, Renewable Energies.
- Microcontrollers and FPGA programming.
- Experience in Hardware-in-the-loop and control platforms, such as DSPACE, PLECS-RT and OPAL is desirable.
- PCB circuit design.

### Applications documents:

- Cover letter explaining the interest in participating in the SHORE project, stating how the applicants' experience and achievements relate to the project.
- Curriculum Vitae, including academic and professional experience, as well as publications list, participation in conferences and other projects. Research output links to ORCID, WoS, Scopus and Google Scholar are strongly recommended.
- Two reference letters that must be sent directly to [jesus.cardenas@uchile.cl](mailto:jesus.cardenas@uchile.cl) and [coahumad@uchile.cl](mailto:coahumad@uchile.cl).
- Copy of PhD Degree Certificate or certificate stating the date of the PhD viva examination.

An interview will be conducted with the preselected candidates.

### Evaluation of Applications:

The Evaluation Committee is composed of the main research team of the SHORE Project. The applicants will be selected and ranked considering the following criteria:

1. Academic Background and Research = 50%
2. Relevance of the research area and relationship with the SHORE project = 20%
3. Interview = 30%

Each point will be graded on a scale from 1 to 5, with 1 being considered a poor evaluation and 5 an excellent evaluation. The applicant with the highest scores will be selected to occupy the position of Postdoctoral Researcher of the SHORE Project. A minimum application score of 3.5 is required for the application to be successful.

### Submitting an application:

All application documents must be sent to [jesus.cardenas@uchile.cl](mailto:jesus.cardenas@uchile.cl) and [coahumad@uchile.cl](mailto:coahumad@uchile.cl) by email, specifying in the email subject: "Application to Postdoctoral position - ATE230035 – Name of the Applicant". Applications must be submitted in English.

### Important dates:

Applications deadline: **6<sup>th</sup> of April 2024**.

Results of the selection process will be communicated to the applicant, not after the **30<sup>th</sup> of April 2024**.

### Contacts:

For more information about the project and the Postdoctoral please contact:

- Director: Roberto Cárdenas Dobson - [jesus.cardenas@uchile.cl](mailto:jesus.cardenas@uchile.cl)
- Vice director – Constanza Ahumada – [coahumad@uchile.cl](mailto:coahumad@uchile.cl)

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