

Postdoctoral Researcher Application

2026 Postdoctoral Application - ANID Fondef Project TA25I10090

The project seeks to hire a **full-time postdoctoral researcher** to work on the **Fondef ANID/TA25I10090** entitled “Desarrollo y Validación de un Cargador Ultra-Rápido Modular para Vehículos Eléctricos con Funciones de Carga Simultánea, Prioritaria y Vehicle-to-Everything”. This project, led by **University of Santiago** and **University of Chile**, focuses on the development of strategies for fast charging of electrical vehicles. To achieve this, the project is developing a control strategy, applied to modular converters, which will allow the simultaneous charge of multiple vehicles, assigning different priorities according to the vehicle’s available time. The postdoctoral researcher will contribute to the development of control strategies and the implementation of the experimental system.

Duration: The contract will be annual, renewable for 4 years, and subject to performance.

Benefits: The full-time postdoctoral researcher contract considers the payment of CLP \$2,200,000- gross salary per month.

Position Details

- Location: Santiago, Chile (based at Universidad de Chile, Av. Tupper 2007)

Successful applicant duties

- Maintain fluid and informative communication with the rest of the team.
- Participate in the elaboration of project documentation, such as reports.
- Participate in project meetings and field trips if required.
- Carry out research in converters control applied to vehicle’s charging.
- Propose solutions to the project's technological challenges.
- Other requested tasks related to the project work.
- Publish at least one WoS paper (Q1 or Q2) per year.

Applicant Requirements

- PhD in Electrical Engineering or a related field.
- Proven experience in power electronics and control.
- Advanced command of English (oral and written) for technical communication.
- Availability to work full-time in Santiago (Chile).
- Not having full-time employment during the duration of the contract.

Mandatory knowledge

- Capacity to write technical reports.
- Analytical ability to facilitate conceptual thinking, innovation and creativity.
- Ability to do independent research within the context of a team.
- Programming (Matlab/Python/C).
- Data analysis.
- Experimental design.

Desired Knowledge and Skills

- PCB design.
- Power converter construction.

Key Skills

- Proactivity and self-learning ability.
- Clear and assertive communication.
- Teamwork.
- Results orientation and decision-making.

Required Application Documents

Applicants must submit the following documents:

1. **Cover Letter**, explaining the interest in participating in the **Fondef ANID/TA25I10090** and detailing how the applicant's experience and achievements are related to the objectives of the project.
2. **Curriculum Vitae**, including academic and professional experience, list of publications, participation in conferences, and research projects. Candidates are strongly encouraged to include links to research profiles (ORCID, WoS, Scopus, Google Scholar, etc.) showing their scientific productivity.
3. **Two Reference Letters**, which must be sent directly to matias.diazd@usach.cl, jesus.cardenas@uchile.cl, and coahumad@uchile.cl,
4. **Copy of the PhD Degree Certificate**, or an official certificate stating the date of the viva/defense examination.

Pre-selected candidates will be invited to an **interview**.

Evaluation Process

The evaluation of applications will be carried out by the **Evaluation Committee**, composed of the main research team. Applicants will be selected and ranked according to the following criteria:

- **Academic background and research record:** 50%
- **Relevance of the research area and its relationship with the Fondef ANID/TA25I10090:** 20%
- **Interview:** 30%

Each criterion will be graded on a scale of **1 to 5**, where **1** is considered a poor evaluation and **5** an excellent evaluation. The applicant with the highest score will be appointed as **Postdoctoral Researcher of the Fondef ANID/TA25I10090**. A **minimum overall score of 3.5** is required for the application to be considered successful.

Submitting an application

All application documents must be sent via email to matias.diazd@usach.cl, jesus.cardenas@uchile.cl, coahumad@uchile.cl, specifying in the email subject: "Postdoctoral Application - **Fondef ANID/TA25I10090** - Name of the Applicant". Applications can be submitted in English.

Application deadline: August 15, 2026.

Contacts:

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

- Director: Matías Díaz: matias.diazd@usach.cl
- Alternate Director Jesús Cárdenas Dobson: jesus.cardenas@uchile.cl