



**ENGINEERING FACULTIES CONSORTIUM OF THE ANTOFAGASTA REGION  
Code 16ENI2-71940**

**CALL FOR POSTDOCTORAL RESEARCHER APPLICATIONS - ENGINEERING 2030 PROJECT**

The Consortium of Engineering Faculties in the Antofagasta Region, HEUMA UA-UCN Consortium, created through the "New Engineering for 2030" Program of ANID, aims to support Chilean universities offering civil engineering programs in the implementation of strategic plans aimed at transforming their Engineering Faculties to international standards, as part of the New Engineering for 2030 initiative.

**JOB DESCRIPTION**

In the context of the Engineering Faculties Project in the Antofagasta Region, the HEUMA Consortium of the "New Engineering for 2030" Program of ANID, the Faculty of Engineering and Geological Sciences of the Universidad Católica del Norte is in search of a professional for the position of **postdoctoral researcher**.

This project aims, among other objectives, to strengthen advanced human capital through the hiring of a postdoctoral professional who will join the existing research team in the following described area:

**POSITION IDENTIFICATION**

Position Name	Postdoctoral Researcher
Priority Area	Hydrometallurgy
Thematic Focus	<ul style="list-style-type: none"> <li>• Lithium extraction from brines.</li> <li>• Application of innovative and sustainable methods.</li> <li>• Analysis and characterization of brines.</li> <li>• Design and implementation of experimental prototypes to evaluate lithium process technologies from brines, applying advanced chemistry or metallurgy techniques. Process optimization.</li> </ul>
Number of Vacancies	1

We are looking for full-time candidates in the field of hydrometallurgy. Candidates should have a strong research background, preferably with relevant experience in metal extraction from aqueous solutions, application of methods to maximize efficiency in extractive processes, and analytical and characterization techniques using specialized scientific equipment.

**MAIN FUNCTIONS**

- Expected to formulate, guide, and participate in research, development, and innovation activities within the consortium's research lines.
- The postdoctoral researcher will design and conduct highly specialized research in their field of expertise, publishing results in high-impact Web of Science journals.
- Will participate, as needed, in teaching postgraduate courses, giving lectures, workshops, seminars, or other scientific events. Co-supervision of graduate students is also offered.



- Collaboration with research center members within the Faculty of Engineering and Geological Sciences and involvement in R&D&I activities associated with the Engineering 2030 project.

## **JOB REQUIREMENTS**

- Doctorate degree, mandatory.
- Documentation proving the attainment of a Ph.D. in Chemical Engineering, Metallurgical Engineering, or related fields. Young applicants who are demonstrably completing their doctoral studies are not excluded.
- Specialization in the area of hydrometallurgy with knowledge enabling collaboration with researchers in the experimental design and execution of processes, methods, and advanced hydrometallurgical techniques.
- Strong knowledge of analytical and characterization techniques, such as spectroscopy, microscopy, and elemental analysis.
- Interest in technological development and prototype construction.
- It is essential to have evidence of authorship of scientific productivity through publications in WoS.
- Experience is expected, preferably in the design and prototyping of chemical or metallurgical process systems.
- Accreditation of proficiency in English is required.

## **SELECTION PROCEDURE AND EVALUATION OF DOCUMENTS**

To evaluate the documents, a committee composed of at least three members from the Faculty of Engineering and Geological Sciences will be formed.

**Applicants will be assessed based on their achievements in the last five years, according to the following weightings:**

### **Applicant with a professional degree and a Doctoral degree [maximum 30 points].**

- Applicant with a Doctoral degree and a professional degree (30 points)
- Applicant with a Doctoral degree without a professional degree (20 points)

### **Research experience [maximum 30 points].**

- Applicant with 3 or more WoS publications (30 points)
- Applicant with fewer than 3 WoS publications (20 points)
- Applicant with Scopus publications (10 points).
- Applicant with other types of publications (5 points)

### **Participation in projects [maximum 30 points].**

- Applicant has led 2 or more projects (30 points)
- Applicant has led fewer than 2 projects (25 points)
- Applicant has not participated in projects (0 points)

### **Professional experience (excluding internships) [maximum 20 points].**

- Applicant has more than 3 years of work or teaching experience in evaluated areas (20 points).
- Applicant has less than 3 years of work or teaching experience in evaluated areas (10 points)
- Applicant has no work or teaching experience in evaluated areas (0 points).



**Experience in academic responsibility positions [maximum 10 points].**

- Applicant has held positions of academic responsibility as a Ph.D. (area coordinator, department head, director of postgraduate courses, or similar) for more than 3 years (10 points).
- Applicant has held positions of academic responsibility as a Ph.D. for less than 3 years (5 points).
- Applicant has not held positions of academic responsibility (0 points).

**Teaching certification [maximum 10 points].**

- Applicant has one or more certifications accrediting their training in teaching (10 points).
- Applicant does not have certifications accrediting their training in teaching (0 points).

The Faculty of Engineering and Geological Sciences reserves the right to declare the competition void if the candidates do not meet the requirements established in this call. The selection will be based on the documents requested in the application requirements.

**REQUIRED DOCUMENTS TO APPLY**

- Updated curriculum vitae, including a list of publications.
- Cover letter indicating your motivation, research plan, and how your research aligns with this call.
- Documentation proving doctoral degrees.
- At least two reference letters (one preferably from a recent supervisor) that can be contacted as references. Note: The required documents must be provided in English in a single PDF file."

**EMPLOYMENT CONDITIONS**

- Employment contract funded by the project on an annual basis, renewable for a maximum of two years.
- Monthly gross salary in the range of CLP \$2,000,000 to CLP \$2,500,000 (gross amount subject to deductions for social security, health, pension fund, and taxes, which are approximately 22%). The salary will depend on the applicant's experience and productivity (ISI publications, participation and leadership in research projects, professional and/or teaching experience), which will be assessed during the candidate selection process.
- 44-hour workweek

**APPLICATION DEADLINE: July 31, 2024**

Communication of results: **August 31, 2024**. The applicant will bear international transportation costs and procedures to enter Chile and others, if applicable. The contracting will be effective to the extent that there are no defined incompatibilities for the public administration.

In accordance with Law No. 20.422, which establishes norms on equal opportunities and social inclusion of people with disabilities, the University of Católica del Norte seeks to ensure that selection processes are developed equally for all individuals. For this reason, applicants can inform if they require support devices, adjustments to the instruments used during the selection process, or other adaptations".

To apply, please send a letter of intent, curriculum vitae, copy of the degree certificate, academic degree, publications, letters of recommendation, and availability to join the work schedule. All documents must be sent via email to [contacto@heuma.cl](mailto:contacto@heuma.cl).