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# Faculty Position in Precision Biomanufacturing

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The **School of Engineering** at the **Pontificia Universidad Católica de Chile**, one of the leading engineering academic institutions in Latin America, invites outstanding candidates for a full-time faculty position in the area of Precision Biomanufacturing at the Department of Chemical and Bioprocess Engineering. Although this call is initially intended for candidates at the Assistant Professor level, exceptional applications at the Associate Professor level are also welcome.

**Duties:** High quality teaching (at engineering undergraduate and graduate levels), and conducting independent research. Additional duties include knowledge transfer, outreach, student counseling and university administrative tasks. The new position in Precision Biomanufacturing should conduct research in the application of cell factories for the production of commercially relevant biomolecules, especially those in the food, pharmaceutical, and biomedical industries. This research demands integrated skills in genetic and metabolic engineering, as well as bioreactor and bioseparation processes.

**Requirements:** Applicants must have earned a Ph.D. degree in bioengineering, chemical engineering, biotechnology, systems biology, synthetic biology, or similar areas, at the time of hiring. At least one of the degrees, whether undergraduate or graduate, must have been obtained from an Engineering School. Previous postdoctoral or international academic experience should be stated in the application.

The applicant should have an outstanding publication track record in the area, with the potential to obtain external research funds and develop high-quality teaching. Applicants should be proactive in pursuing independent research lines, able to work collaboratively, and show evidence of interdisciplinary collaboration.

The position will be part of an interdisciplinary environment, where he/she should be able to interact with academics in diverse areas, from chemical and food engineering, industrial, environmental and food biotechnology, to biomedical engineering, genetics and microbiology, among others.

The position will require undergraduate and graduate teaching. For example, the candidate will teach courses such as Unit Operations, Bioprocess Design and Evaluation, or Bioreactor Design. The candidate is also expected to create and teach graduate courses in his/her area of expertise contributing to our undergraduate or postgraduate programs.

Applicants must demonstrate a strong commitment to all aspects of academic life and public good of the institution. They must be highly motivated to continuously improve their teaching skills, have a



genuine interest in getting involved with our graduate programs (specially the doctoral program) and be able to develop and maintain an active research agenda leading to high quality publications, securing research grants, generating and participating in interdisciplinary projects, leading scientific and industry-liaison initiatives, strengthening and creating national and international academic networks, etc.

Candidates do not need to be fluent in Spanish at the time of application, but should be prepared to learn the language well enough to teach in Spanish in the short term (two years maximum). Fluency in English is a requirement.

If selected for the position, foreigners that apply from abroad must obtain the appropriate visa in their country of residence, to join the University faculty.

## Application instructions

Applicants should submit the following documents to [vacantes-academicas@ing.puc.cl](mailto:vacantes-academicas@ing.puc.cl) (in the email subject line, please indicate: **Faculty position in Precision Biomanufacturing**; see [note A](#)) by **June 15th, 2023** (late applications will be considered until the position is filled).

1. A research statement (in English) indicating the immediate and long-term goals of the applicant's research plan and detailing potential collaboration networks with other researchers and plans for interactions with scientists in Chile and other countries.
2. A teaching statement of purpose (in English) indicating why the applicant should be considered for the position and the plans for teaching. The applicant should be as specific as possible by providing examples of the plan to transfer knowledge to undergraduate and graduate students.
3. An updated curriculum vitae (in English, see [note B](#)).
4. If available, copies of five recent Web of Science publications that are relevant to the context of the application (see [note C](#)).
5. At least, three letters of recommendation, which must be e-mailed directly by the signatories to [vacantes-academicas@ing.puc.cl](mailto:vacantes-academicas@ing.puc.cl).



**Note A:**

The applicant will get a response from this email address confirming that the documents have been received.

**Note B:**

The CV must be organized as follows:

- i. Personal information: name, address, contact telephone number (with country and city codes), email address, web page (if any).
- ii. Education: all academic and professional degrees, indicating the granting institutions and dates. If the applicant is currently enrolled in a doctoral program, please indicate the expected date for the degree.
- iii. Educational experience (university or institution, courses taught and years).
- iv. Professional experience (employer, duties, years).
- v. Research:
  - a. List of Web of Science journal publications (see [note C](#)).
  - b. List of other publications such as reports, books or book chapters, conferences attended, research projects participated in, patents, etc.
- vi. Other: awards, computer skills, languages, and any other relevant background information.

**Note C:**

Please avoid padding the list with other publications, such as those published in journals not indexed in the Web of Science database, conference presentations and alike.

Once the complete set of application materials has been received, the applicant will be contacted within two months after the application deadline and informed whether the application has been accepted for further consideration. If this initial screening is successful, the candidate will be asked to continue the process following the steps described in **Appendix 1**.

**Further information**

Additional information can be obtained by emailing the Department Chair, Dr. Ricardo Perez (perez@uc.cl), or the program chair of the Biological Engineering program, Dr. Daniel Garrido (dgarridoc@uc.cl).

**EEO/AAP Policy Statement**

The Pontificia Universidad Católica de Chile is committed to fostering an environment that welcomes and embraces diversity, and does not discriminate on the basis of race, color, creed, religion, origin, disability, age, sexual orientation, or marital status in its activities, including employment, admissions, and educational programs. Moreover, according to the “Regulation for the Selection of Academics” of the Engineering School UC, in case of equal academic merits, the hiring of a female academic should be favored.



Other Chilean and University employment benefits may be found in:

- Foreign workers in Chile: <https://www.dt.gob.cl/portal/1626/w3-article-93693.html>
- University rules and regulations:  
[http://direcciondesarrolloacademico.uc.cl/index.php?option=com\\_content&view=article&id=286&Itemid=178](http://direcciondesarrolloacademico.uc.cl/index.php?option=com_content&view=article&id=286&Itemid=178)

All members of the Pontificia Universidad Católica de Chile subscribe the Code of Ethics that can be found in <https://www.uc.cl/codigodehonor>

### **Appendix 1. Application steps**

- 1) Interviews/Seminar:
  - a. Interview with the Selection Committee
  - b. Interview with faculty members of the Department of Chemical and Bioprocess Engineering
  - c. Psychological Interview
  - d. Seminar (open to faculty members of the School of Engineering)

The interviews and seminar are generally carried out within a week.

- 2) Selection of the final candidate by the Department and the Selection Committee
- 3) Ratification of the selected candidate by the School Council
- 4) The selected candidate is informed (offer letter)

The time that elapses from the interviews until the final resolution is typically around two months.