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# Atracción de Jóvenes Profesores Investigadores



## CALL FOR APPLICATIONS FOR ONE (01) FULL TIME FACULTY POSITION – PROGRAM FOR ATTRACTING YOUNG PROFESSORS - FOR THE ACADEMIC DEPARTMENT OF PHYSICS

The Academic Department of Sciences (DAC) of the Pontifical Catholic University of Peru (PUCP), within the framework of the Program to Attract Young Professors (preferably under 40 years of age) with full-time dedication (Tenure Track), invites you to participate in the competition for the assignment of a research teaching position in the Physics Section.

Applicants must hold a Ph.D. in physics or related fields and be specialized in areas related to the study and applications of radiation of terrestrial origin, including radon, as well as neutrons from isotopic and cosmic sources, or research in the fields of radiation physics, dosimetry, radiation protection, and applications of ionizing radiations in industry, geology, nuclear medicine. The evaluation aims to fill a position in some of these research areas.

**Application Deadline: Friday, August 30, 2024**

Applicants must hold a Ph.D. in Physics or related fields.

Selected candidates will serve as professors and researchers in the Academic Department of Sciences – Physics Section at the Pontificia Universidad Católica del Peru (PUCP), with a dedication of forty (40) hours per week. This includes research activities, teaching, and participation in academic-administrative tasks (thesis committees, commissions, etc.).

### Requirements

- A Ph.D. in Physics or related areas.
- Have postdoctoral experience.
- Have publications in specialized journals indexed in Q1 and Q2 quartiles (Web of Science and Scopus).
- Desirable to have presented 3 or more oral presentations/posters at refereed international academic conferences related to the area of specialization in the last 3 years.

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## Commitments for the 3-Year Contract Period

### 1. Research Commitments:

- Publish at least 4 academic articles in journals indexed in Web of Science or Scopus (Q1 and Q2 quartiles) with PUCP affiliation during the evaluated period.
- Disseminate research at refereed academic conferences with an international scientific committee (in-person or virtual): participate in at least one conference per year on average.
- Participate in the research group of their area of specialization.
- Submit at least one research projects for external funding competitions as the principal investigator or co-investigator.

### 2. Teaching Commitments:

- Teach the equivalent of 10 lecture hours per year, with at least 3 hours in undergraduate courses (an average of 5 hours per week per semester) distributed between undergraduate and/or graduate courses.
- Supervise undergraduate and/or graduate theses and ensure the defense of at least one thesis.
- Achieve good performance as evaluated through the Teaching Opinion Survey. Professors are committed to obtaining high scores according to student evaluations of teaching.

### 3. Other Commitments:

- Affiliation: The professor commits to indicating affiliation with the Pontificia Universidad Católica del Peru in all publications and presentations at academic events. PUCP affiliation is mandatory for all publications, presentations, workshops, and events conducted during the period.
- Exclusivity: The professor commits to having teaching hours only at the PontificalCatholic University of Peru during the assignment period. This means they cannotengage in teaching or research at other educational institutions (or

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equivalent), except as a guest lecturer or visiting researcher.

## About the University and the Academic Department of Sciences:

The Pontificia Universidad Católica del Perú (PUCP), founded in 1917, currently has nearly 30,000 undergraduate and graduate students. Its modern facilities are spread across a university campus of over 40 hectares located in Lima. PUCP is institutionally accredited by the International Institute for Quality Assurance (IAC-CINDA) and is ranked as the best university in the country and number 10 in Latin America according to the Quacquarelli Symonds (QS) World University Rankings 2023.

The Academic Department of Sciences (DAC) of the PUCP was founded in 1966 and currently encompasses the departments of Physics, Mathematics, and Chemistry. DAC is equipped with well-furnished teaching and research laboratories and houses recognized research groups, including GITHUNU-PUCP. The primary objective of GITHUNU-PUCP is the study and applications of radiations of terrestrial origin, such as radon, and neutrons from isotopic and cosmic sources. There is an interest in expanding studies in radiation physics, dosimetry, and radiological protection with a view toward applications of ionizing radiations in industry, geology, nuclear medicine, diagnostic imaging physics, and radiotherapy.

Some publications by the group include:

- Monte Carlo simulation of a simple and fast method to experimentally determine the partial sensitivity of a bare LR-115 detector using planar alpha sources. [10.1016/j.radmeas.2023.106951](https://doi.org/10.1016/j.radmeas.2023.106951)
- Estimation of Indoor  $^{222}\text{Rn}$  Concentration in Lima, Peru Using LR-115 Nuclear Track Detectors Exposed in Different Modes. <https://doi.org/10.3390/atmos14060952>
- Mapping the Spatial Distribution of Natural Gamma Dose Rates as a Baseline Study in the Province of Asti, Italy. [10.3390/pollutants4020011](https://doi.org/10.3390/pollutants4020011)
- Preliminary applications carried out in a new-build radon chamber using CR-39 detectors inside non-commercial diffusion chambers. [10.1016/j.radphyschem.2023.110845](https://doi.org/10.1016/j.radphyschem.2023.110845)



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## Benefits for Successful Candidates:

- Sixty (60) days of annual leave.
- Annual bonuses for scientific publications (recognition for research), provided they complete the publications specified in their contract.
- Annual bonuses for good teaching performance (recognition for teaching).
- The possibility of obtaining financial support to present papers at international conferences (covering registration fees, travel, and per diem).
- The possibility of requesting financial support for their research projects through the Annual Project Competition – CAP (Professors cannot allocate themselves as salary as researchers).
- Discounts on university courses and academic programs.
- The possibility of accessing insurance (Seguro Complementario de Salud (EPS)).

## Required Documentation:

Individuals interested in applying for the competition, who meet the profile and requirements indicated, may submit the specified documents digitally by 08/30/2024, to the email address [dac.convocatoria@pucp.edu.pe](mailto:dac.convocatoria@pucp.edu.pe), with the subject line " Application for Physics Tenure Track - LAST NAME".

1. Curriculum Vitae in English or Spanish
2. Scanned copies of obtained degrees and/or titles
3. A cover letter (maximum 2 pages) addressed to the head of the Science Department Dr. Jorge Moreno, which includes:
  - Presentation of academic history
  - Current position and institution
  - Description of research focus
  - Major academic and professional achievements
  - Interests and motivations for applying to the position
  - List of attached documents
4. Research Statement, of up to three pages, including:

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- A summary of their research, indicating those that are most representative of their work
- Research projects and future research to be developed at the university if selected
- Academic links that could lead to collaborative projects
- Demonstrating synergy with research areas in the Physics Section, emphasizing the area the applicant is applying to.

5. Teaching Statement, of up to three pages, including:

- Experience in university teaching, if any
- Vision of integrating research into teaching
- Courses or topics related to the discipline that the candidate would like to teach at the university
- Description of experience in supervising undergraduate and graduate theses, if any

6. Two letters of recommendation from researchers or university professors with whom the candidate has worked

The CV and requested documents must be submitted in **a single PDF file**.

PUCP promotes gender equality in academia. Female candidates who meet the requirements and profile are encouraged to apply.

## Evaluation Process

The evaluation of candidates will be conducted by a jury of five members, consisting of three (3) professors from the Academic Department of Sciences (2 from the relevant area and 1 from a different area) and two (2) external evaluators from prestigious international universities. The evaluation process aims to select the most suitable candidates to fill the available position in this competition and will focus on two areas: teaching and research. The evaluation will consist of three eliminatory stages:

1. Review of the submitted documents.

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2. Evaluation of teaching and research competencies, which will be carried out through two consecutive seminars. Candidates will present the research works they consider most representative of their capabilities in a specialized seminar. A research proposal and an evaluation of their academic abilities will be assessed during a personal interview. If necessary, the sessions will be conducted remotely, virtually, according to a schedule previously agreed upon with the candidates at this stage.
3. Psychological evaluation. This will be carried out by specialists and will not form part of the evaluation score.

Informative Note: PUCP conducts psychological analyses of its hired staff as part of an occupational health policy, which respects privacy and non-discrimination laws.

## Inquiries:

Interested parties may direct their inquiries at [dac.convocatoria@pucp.edu.pe](mailto:dac.convocatoria@pucp.edu.pe) with the subject "Tenure Track Call-LAST NAME."