

Two Tenure-Track Group Leader Positions in Computational Biology and Biological Chemistry

Universitat Pompeu Fabra Barcelona, Spain

The Department of Experimental and Health Sciences (DCEXS) of the Universitat Pompeu Fabra (UPF) aims to fill **two Tenure-Track Group Leader positions** in the fields of Computational Biology and Biological Chemistry, respectively. We encourage applications from outstanding scientists at any stage of their careers working in any area within those two fields. These include, in the case of computational biology: biological image analysis, single-cell transcriptomics data analysis, multi-omics data integration, mathematical modeling of biological processes, biostatistics and computational systems biology, among others. In the case of biological chemistry, applicable areas include (but are not limited to) peptide chemistry (including synthesis of bioactive compounds and vaccines), proteomics, *de novo* protein design, optochemistry and molecular modeling.

Successful candidates will be highly accomplished scientists with a PhD in a relevant field and a strong capacity for interdisciplinary research. The future group leaders will be expected to attract research funds, supervise doctoral theses, and actively engage in teaching computational biology and biological chemistry courses, respectively, in our undergraduate and graduate programmes. Selected applicants will be expected to collaborate with the other research groups of the Department in scientific projects of common interest. Additionally, the Computational Biology Group Leader will act as scientific advisor of the Department's Core Facility of Scientific Computing.

The Department of Experimental and Health Sciences at UPF

The DCEXS (<https://www.upf.edu/web/biomed>) is an internationally renowned biomedical research center in Barcelona, Spain. The DCEXS is located at the Barcelona Biomedical Research Park (PRBB, <https://www.prbb.org>) with six other research institutes, including the Center for Genomic Regulation (CRG), the Hospital del Mar Medical Research Institute (IMIM), EMBL Barcelona, and the Barcelona Institute for Global Health (ISGlobal). With a staff of more than 300 scientists, the DCEXS combines the creation and transfer of knowledge through the seamless integration of research and teaching, well in line with the vision and values of the Universitat Pompeu Fabra (<https://www.upf.edu>), which holds top-level positions in national and international rankings for teaching quality and scientific productivity (first Spanish university and 65th European university according to the Times Higher Education Ranking 2021). The DCEXS trajectory of research excellence and innovation in education has been recognized with the "María de Maeztu" Unit of Excellence award by the Spanish Ministry of Science and Innovation.

Research at the DCEXS

Understanding complex biological systems, particularly human biology and disease, requires interdisciplinary approaches integrating experimental biology, computation and engineering. The

scientific focus of the DCEXS is to strengthen and expand our research horizons under the broad overall scope of molecular biomedicine covered by our Research Programmes. The DCEXS is organized in seven Research Programmes, and its research groups are supported by cutting-edge core facilities in flow cytometry, proteomics, genomics, microscopy, and scientific computing (<https://www.upf.edu/web/sct>). A description of our Research Programmes can be found at <https://www.upf.edu/web/biomed/programmes>.

The DCEXS promotes diversity in an inclusive environment that welcomes applicants regardless of age, disability, gender, nationality, race, religion, or sexual orientation. Women are especially encouraged to apply.

Further information regarding the DCEXS and the group leader recruitment & selection process can be found at <https://www.upf.edu/web/biomed>.

The Offer

- Tenure track position that can be consolidated to a permanent faculty position depending on external peer-review.
- Startup package covering the salary of a PhD student or technician, consumables, laboratory/computing equipment, and access to our scientific facilities.
- Lab space for 5-7 people.
- Envisaged start date: from **September 2022** onward.

Application Procedure

Applications must be submitted through the Interfolio website:

- Link for the position in Computational Biology: <http://apply.interfolio.com/99605>
- Link for the position in Biological Chemistry: <http://apply.interfolio.com/99606>

Applications should include:

1. Motivation letter, describing explicitly how your research goals fit with those of DCEXS.
2. Curriculum vitae, including the information listed in the guidelines below.
3. List of 5 selected publications, with a brief description of each of them.
4. Brief proposal of your future research plans at DCEXS (max. 2 pages)
Please include an estimate of the equipment and facilities needed for your research
5. Contact details of 3 references.

Application deadline: applications should be submitted **by February 28, 2022**.

Interviews: Short-listed candidates will be invited to an interview to be held in **May 2022**, either remotely or in person at the DCEXS in Barcelona, depending on the public-health situation.

Contact: Dr. Regina Lopez (avaluacio.cexs@upf.edu), for enquiries only. Applications sent by email will not be accepted.

CV guidelines

Please make sure that your CV includes the following information (although you do not need to follow this exact format, and feel free to include further information if relevant).

Maximum length: 15 pages.

1. Brief summary of academic and scientific background
2. Education/training
3. Professional academic positions
4. Publications

Specify if publications are original research articles, reviews, book chapters, or books. Provide evidence of impact (e.g., number of citations according to any citation indexing service). Please do not include conference abstracts.

5. Teaching experience

Include the course type (i.e., conventional lectures, practical courses, online courses, MOOCs, graduate or undergraduate level), name of the course, approximate number of students attending, hours per course, and whether the candidate was course coordinator or participant teacher.

6. Grants and funding

Include only grants in which you are/were the Principal Investigator. Please specify title, year, funding agency and amount granted (in US\$ or €).

7. Invited conferences and talks

Include only invited talks given personally by you

8. Technology transfer

9. Other merits (courses, honors and awards, project management experience, etc.)