

Call for expressions of interest for the submission of Marie Skłodowska-Curie Individual Fellowships projects

ORGANISATION UNIVERSITAT ROVIRA I VIRGILI

RESEARCH FIELD: Cheminformatics, Drug Discovery and Drug Design

RESEARCHER PROFILE: Established Researcher (R3)/ Recognised Researcher (R2)

LOCATION : Spain › Tarragona

TYPE OF CONTRACT: Temporary

JOB STATUS: Full-time

HOURS PER WEEK: 37.5

EU RESEARCH FRAMEWORK PROGRAMME: H2020 / Marie Skłodowska-Curie Actions

Title of the call:

Marie S.Curie IF 2019 Host in Cheminformatics-Call for Exp of Interest

Professor Gerard Pujadas, established at the Universitat Rovira i Virgili (Tarragona, Spain), is interested in receiving Expressions of Interest of potential candidates for the Marie Skłodowska – Curie Individual Fellowship (MSCA – IF) 2019 call. Selected candidates will receive dedicated support from my group to write a successful proposal.

The overarching goal of our research group focuses on using computational tools to: (1) predict which natural molecules have one specific bioactivity; (2) find new uses for specific molecules (e.g., valorization of by-products by finding new uses for molecules that are present on them). Our results can be used either to design functional foods/nutraceuticals for specific risk population's groups (e.g., people that have the risk to become diabetic) or to develop new molecular cosmetics products or to find/design/improve drugs.

Our research consists of 4 pillars:

- Designing virtual screenings to mine molecular databases looking for previously undescribed bioactive compounds
- Develop new tools that improve any stage of the drug discovery process
- Repurposing of approved drugs for finding new applications for them
- Valorization of side and byproducts from the agrofood industry by finding new applications for the molecules present on them

More information about publications, expertise and research interest can be found at the group website <http://www.cheminformatics-nutrition.recerca.urv.cat>

For the Marie Curie IF call of 2019, we are looking for postdoc(s) with either one of these two profiles:

- Profile 1: PhD in Computer Science or similar
- Profile 2: PhD in Life Sciences

For both profiles, the next skills are mandatory:

- Experience with Python
- Experience in web development
- Experience with machine learning
- Experience with GNU/Linux systems
- Experience with SQL and database management

Other skills that are desirable, but not required for both profiles:

- Familiarity with the most known chemoinformatics toolkits (OpenBabel, RDKit, OpenEye, etc.)
- Familiarity with the most used drug discovery and design suites (Schrödinger, OpenEye, MOE, etc.)
- Familiarity with pandas, scipy, scikit-learn, theano and related python modules
- Familiarity with R
- Familiarity with Biostatistics

Other profile-specific features that are desirable but not required:

- For profile 1: BSc. or MSc. in Life Sciences
- For profile 2: BSc. or MSc. in Computer Science or similar

We are looking for talented and innovative young scientists, strongly committed to high quality frontier research and able to add new insights to the existing URV core expertise. Only candidates with an outstanding record of research achievements and publications in top-quality journals will be considered

URV as Hosting Institution located at Scientific Campus of Universitat Rovira i Virgili (Tarragona, Spain), has use of all the technical and scientific facilities for carry out this project.

Eligibility criteria

At the deadline for the submission of the proposals (11/09/2019), researchers:

- Shall be in possession of a doctoral degree or 4 years of full-time equivalent experience;
- Must not have resided or carried out their main activities in Spain for more than 12 months in the 3 years immediately prior to the above mentioned deadline.
- Must be fluent in English (both written and spoken).

Selection process

Researchers willing to apply should check that they fulfil the eligibility criteria and then send an expression of interest, consisting of:

- A Curriculum Vitae

- A summary presentation of their research proposal / A motivation letter

Expressions of interest must be submitted to uspir@urv.cat (Title of the e-mail " URV-MSCA - Prof. Gerard Pujadas).

Proposals will be pre-selected on the basis of internal evaluation. Candidates will be informed of the results of the pre-selection a week after the deadline.