

ANNEX

Rules for the call for the ai2 Artistic Residency Program. Vice-Rectorate of Art, Science, Technology and Society and Laboratory of Synthetic Biology and Biosystems Control of the University Institute of Industrial Automation and Informatics.

UPV's Artistic Residency Program is aimed at artists (over 18 years old) from all countries, with the aim of promoting interdisciplinary exchanges between international artists and UPV's researchers and scientists.

The Synthetic Biology and Biosystems Control Lab (sb²cLab)

At the sb²cLab we focus our research on the applications of systems engineering and control for synthetic biology and the modeling and control of bioprocesses.

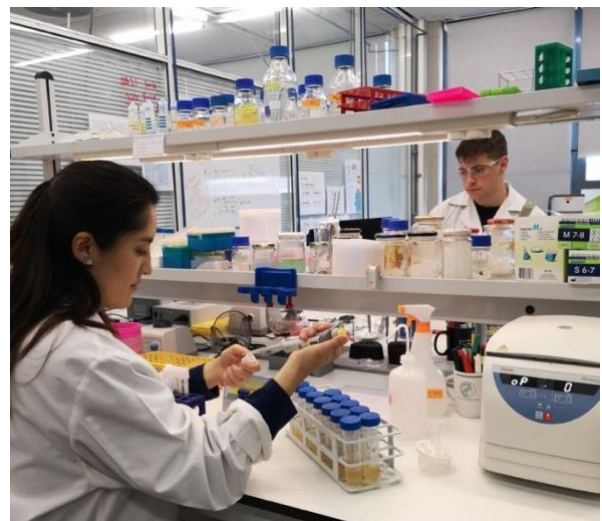
Synthetic biology, or biological engineering, is a rapidly growing interdisciplinary field that combines principles of biology and engineering. In essence, the goal is to design synthetic genetic devices so that living cells and organisms in which they are integrated perform specific functions or present desired behaviors that may not exist in nature. To achieve this, we introduce new genetic material, modifying the existing one and even design new biological systems from scratch.

The applications of synthetic biology are very broad, covering a large number of areas and offering opportunities to create new biological systems and tools that are useful for medical therapies, production of new materials of biological origin, environmental bio-remediation, generation of biosensors, production nutraceuticals, generation of synthetic foods, etc.

In synthetic biology, the iterative cycle (or re-design) of design, build, test and learn (DBTL) of genetic circuits is used with the aim of modifying their function and creating microorganisms that exhibit a desired behavior of interest.

In the sb²cLab we focus on understanding how synthetic genetic devices should be designed and how the interaction between the device and the host cell should be taken into account, so that their behavior inside the cell is as desired. In addition to theoretical and computational work, in our laboratory we physically implement prototypes and proofs of concept of our developments.

For the implementation of prototypes and analysis of results, combining our computational and experimental capabilities, we use design, build, test and learning iterations (DBTL cycle) in which we take advantage of the capabilities offered by process automation technologies via robotic platforms, the standardization of biological components, measurements and protocols, and computational learning and optimization tools.



Objectives

In accordance with the approach of the Laboratory of Synthetic Biology and Control of Biosystems, the artistic residency will be carried out around concepts derived from the research conducted in said research center and its objectives. The residency will provide a training and experimental platform for the selected person to explore the creative potential and implications of Synthetic Biology, working in the field of Art, Science and Technology.

The resident will have a workspace in the sb2cLab and on-site scientific tutoring through collaborations with their researchers, allowing them to learn from within different research projects, their objectives, scientific methods and experimental approaches used.

The objective of the residency is the creation, and subsequent dissemination, of an artistic work whose content is related to the research developed in the sb2cLab, thus allowing our center to explore new forms of alternative communication with society about the achievements we have attained.

The format of said work is open, in accordance with current standards of Contemporary Art in areas such as Interactive Art, BioArt, Hybrid Art, AI & Life Sciences, Sound Art, Net Art, Digital Communities, Participatory Art/Crowd Art, Artistic Platform Projects and Art Activism, among others.

The proposal must be an original work that opens up new perspectives in the field of interaction of art, science, technology and society. The proposed work may be completely new or be an extension of work in progress.



Residence time structure

Phase 1

The objective of the first phase is to readjust the artistic project to the context of the Synthetic Biology Laboratory. To this end, interaction with researchers who will act as mentors will be encouraged, and relevant safety training will also be provided

Phase 2

The scientific mentoring process will be completed within 6 to 8 weeks. Dates to be agreed upon with the sb2cLab between the months of March to May 2024.

The second phase of the residency will take place at UPV's Faculty of Fine Arts to create the work. Issues related to implementation will be discussed with UPV's Cultural Action Area.

The work will be created within a period of 3 to 6 weeks. Dates to be agreed upon with UPV's Faculty of Fine Arts between the months of June and July 2022.

Phase 3

At the end of the residency, there will be a public presentation of the work at UPV's facilities and an art center in the city of Valencia.

Exhibition date to be agreed upon with UPV's Cultural Action Area between the months of September to November 2022.

Amount of the aid

The residency provides a maximum aid of €14,000 which includes:

- An amount of €3,000 for the artist.
- Up to €8,500 for production costs.
- Up to €2,500 for travel, accommodation, and food.

If the winning application is submitted by a group of artists, the artist fee, production expenses, as well as travel and accommodation costs must be divided among the members.

Production expenses will be processed through invoices up to a maximum not exceeding the assigned amount, through UPV's Cultural Action Area in accordance with UPV's expense management rules.

All property rights and any other rights remain with the artist.

Requested documents

Fill out the application form: [Link to the form](#)

The application must be accompanied by the following documentation:

- A short personal testimony video in which the artist explains why they are applying for residency (max. duration 1 min.)
- Description of the artistic work that will be researched and created as part of the residency
- Brief description of the artist's expectations regarding collaboration with scientists and the necessary resources
- Project production plan, schedule, and cost estimation

The deadline for submitting applications begins on the day following the publication of the extract of this resolution in the Official Gazette of the Generalitat Valenciana and ends on December 30, 2023.

Submission of the application

To submit the application form, read in detail the fourth section of the [official publication of the call](#).

The rest of the required documentation must be sent to the email cultura@upv.es. If the size limit of the message exceeds the email limit, send it via <https://intercambio.upv.es/> or another similar file exchange platform, to the indicated address.

Call resolution

A jury made up of 5 people will evaluate the proposals.

See in this regard the **fifth and eighth sections of the [official publication of the call](#)**.

The applications submitted will be scaled according to the following criteria:

- Project characteristics: quality, objectives, formats, expectations (25%)
- Linking the project with the SDGs of the 2030 Agenda (10%)
- Adequacy of the requested resources to the proposed objectives (20%)
- Organizational aspects and planning (20%)
- Portfolio, CV and Video 1' (25%)

If the application does not meet the requirements established in the rules of the call, the competent body will require the interested party to correct it within the maximum and non-extendable period of 10 days, indicating that if they do not do so, their application will be considered withdrawn.

For notification purposes, the results will be published on the following website:

<<https://acts.webs.upv.es/?lang=en&p=convocatorias>> on a date no later than January 31, 2024. Additionally, the beneficiaries will be notified in their email account.

The submission of the application implies acceptance of the bases, as well as the obligations derived from the legal framework for grants and subsidies.