



CY Advanced Studies Fellows-in-Residence Program

Call for proposals 2022

Program description

Aim and scope of the program

CY Advanced Studies (CY AS) invites applications from high-level international scholars and scientists in all fields, for up to 9 research fellowships. CY AS is the Institute of Advanced Studies of CY Initiative, an academic consortium gathering CY Cergy Paris Université (CYU) and the ESSEC Business School.

The call is open to promising young scholars as well as leading senior researchers, wishing to carry out original research projects in partnership with research centers of CY Initiative.

The Fellows-in-Residence program offers a multidisciplinary research environment and creates an opportunity for researchers to develop original research ideas, to apply their knowledge and skills to new domains and to develop cross-disciplinary initiatives. For the development of their research projects, fellows-in-residence will be jointly affiliated with one of the research centers of CY Initiative where they will be able to create contacts, exchange knowledge and collaborate with researchers from various fields. Within CY AS, fellows from all disciplines take part in the Institute's interdisciplinary exchange program.

Academic environment

CY Initiative

CY Initiative is funded by the French *Investissements d'avenir* program as one of the 19 French Universities of Excellence. The partner institutions of CY Initiative are:

- CY Cergy Paris Université, a multidisciplinary, mid-sized university created in 1991. Though recently created, it has already gained significant recognition for the quality of its research and innovation. It is ranked in the top 250 of the Times Higher Education Young Universities ranking, in the world top 200 in Mathematics and top 300 in Economics (ARWU). It also runs two national centers of excellence in the fields of Modelling in sciences (economics and finance, mathematics, physics, computer science) and heritage restoration and conservation (experimental sciences and humanities).
- ESSEC Business School, one of the world's leading Business Schools ranked in the world top 200 in Management and top 150 in Finance (ARWU).

The consortium's goal is to support the partners' research potential and international attractiveness with the ambition to become one of the top world research universities within ten years.

CY Advanced Studies

CY Advanced Studies supports ambitious research projects in all fields. Through the organization of international scientific events and its international visitors program, CY AS encourages the emergence of innovative and interdisciplinary projects at the crossroads of major disciplines. To carry out its missions, CY AS develops, in collaboration with the CY Initiative research centers and laboratories (listed below, in the 'Contacts' section):

- a program of scientific events including conferences, seminars, international congresses, thematic semesters, guest lectures delivered by CY AS visitors intended for a wide academic audience;
- a program of short or long-period visiting scholars from all disciplines.

Each year, ca. 70 scholars are invited and approximately 10 major scientific events are organized.

CY Initiative research areas and research centers

Research at CY Initiative covers all academic disciplines except medicine and can be grouped into four main scientific areas:

- Formal Sciences and Modelling;
- Natural Sciences and Engineering;
- Economics, Business, Law, and Politics;
- Humanities, Arts, and Education.

The academic community of CY Initiative is structured in 25 research centers or laboratories. Nine of them are cooperated with the French National Center for Scientific Research (CNRS).

Addressing cross-cutting topics, interdisciplinary and intersectoral research is also stimulated through the following three transversal structures:

- The MME-DII *Laboratoire d'excellence* gathers researchers in Mathematics, Economics, Physics and Computer Science and develops innovative models of uncertainty, interactions and dynamics. Some of the targeted application areas include economics, finance and social sciences.
- The *Fondation des Sciences du Patrimoine* (Foundation for Heritage Science) gathers researchers from humanities, arts, and sciences for the study, preservation and restoration of cultural heritage, in partnership with leading national and international cultural institutions.
- A third transversal research group focuses on risk and security issues and gathers researchers in data and computer science, experimental sciences, social sciences and external experts in forensics, criminology and security.

The CY Initiative research community offers high-quality research facilities and cutting-edge equipment including technological platforms for materials analysis, molecular diagnosis and characterization, digital technologies, operated by CYU.

The Fellows-in-Residence Program

Types of fellowships, duration, and compensation

Three types of fellowships are proposed:

- *Junior fellowships*: for researchers with less than 10 years of experience after their Doctorate, with or without a permanent position at a university or research institute. These fellowships are awarded for a duration of one year and may be renewed for one additional year. A first post-doctoral experience is particularly appreciated.
- *Senior fellowships*: for researchers with more than 10 years of experience after their Doctorate, with a permanent position at a university or research institute. These fellowships are awarded for a duration of 4 to 10 months and, in case of long-term collaborations, can be divided into two or three stays, of minimum 3 months each.
- *National fellowships* at junior or senior level: for researchers holding a permanent position in French higher education and research institutions. For one semester, CY AS offers the possibility to host researchers during a *CRCT* or *délégation* period by reimbursing teaching costs to their home institution. This scheme could also be open to researchers of partner universities outside France.

CY AS Fellows-in-Residence who maintain their status in their home institution might benefit from a

stipend. Fellows will otherwise be offered a fixed duration research contract with salary.

In all cases, the remuneration depends on the fellow's personal and professional situation and on whether they continue to receive pay from their home institution. The benchmark pay scale corresponds to prevailing standards in French academia.

The minimum compensation paid to fellows is equal to 2500€ net per month. The maximum compensation is equal to 4500€ net per month.

CY AS Fellows will also receive:

- Reimbursement of travel costs up to 1000€ (including visa fees)
- Research, support, and training costs of up to 3000€.

Affiliation

Fellows-in-Residence will be jointly affiliated with CY AS and the research centers relevant to their research project. At CY AS, they will be offered office space and access to conference facilities. They may also take advantage of the housing facilities of the institute.

Fellows-in-Residence commit to a regular participation in the scientific activities of the CY AS, including CY AS seminars and guest lectures.

They are expected to develop collaboration with the research groups of CY Initiative, in relationship with their research activities. Before the submission of their application, they are strongly encouraged to establish contacts with the research groups in line with their research proposal. A detailed presentation of the research environment offered at CY Initiative can be found on the 'research' pages of each institution's website:

- For CYU: <https://www.cyu.fr/laboratoires>
- For ESSEC Business School: <http://www.essec.edu/en/pages/faculty-and-research/3/>

Eligibility conditions

CY AS Fellows-in-Residence Program supports researchers from all countries and all disciplinary backgrounds. While there is no restriction on nationality, appropriate permission to work in France is required before taking up the Fellowship. With the exception of national fellows, researchers who have stayed in France for a total of more than 24 months in the three years preceding this call are not eligible.

Application and selection process

Application process

All applications must be submitted online through a dedicated web application portal. The details of the application procedure and online submission will be available from 18 November 2021 at: <https://cy-initiative.smapply.io>

The application includes the following documents:

1. A completed application form (available on the above webpage).
2. A CV (maximum 4 pages, in English) highlighting publications, activities or achievements that are especially relevant to this application.
3. A detailed research project. The proposal should use the dedicated template and will include: research objectives, state-of-the-art, innovative character of the project, methodology,

expected outcomes, work plan, existing or planned scientific cooperation and contacts in France, bibliography (books and articles cited).

4. A statement of cooperation endorsed by the director of one of the research centers of CY Initiative. The planned collaborations may include the organization of conferences and series of lectures or the preparation of a research project to be submitted to an international funding agency (e.g. ERC, Horizon Europe);

In the case of Junior Fellows, two letters of recommendation from French or international researchers are requested.

Selection

Proposals will be reviewed by a committee composed of external evaluators and representatives of CY AS and CY Initiative. The selection criteria include:

- The scientific quality and innovative character of the project.
- The potential for collaboration with researchers of CY Initiative.
- The experience and expertise of the applicant.

Timeline

- Call opening: 18 November 2021.
- Deadline for submitting research summary: 13 January 2022, 1pm CET.
- Deadline for applications: 9 February 2022, 1pm CET.
- Evaluation: March-April 2022.
- Notification: May 2022
- Start of the fellowships: September 2022.

Contacts

- General enquiries can be addressed at: fir-inq@ml.u-cergy.fr
- Applicants are strongly advised to contact prospective host research centers using contact details provided on each research center's web page, which can be accessed through the links in the table on the next page.

Links to CY Initiative research centers by disciplinary area			
Formal sciences and modelling		Economics, business, law, and politics	
Mathematics	AGM	Economics	THEMA , ESSEC
Theoretical physics	LPTM	Business and management	ESSEC
Computer science	ETIS	Law and political science	CESDIP , CPJP , AGORA , LEJEP
Natural sciences and engineering		Humanities, art, education	
Experimental physics and astrophysics	LPMS , LERMA	Education and didactics	BONHEURS , EMA , LDAR
Chemistry	LPPI , BioCIS	Geography	MRTE
Biology	ERMECCE , LAMBE	History, cultural and area studies	AGORA , HERITAGES
Earth sciences	GEC	Languages and literature	HERITAGES , LT2D
Electronics and electrical engineering	SATIE	Linguistics	LT2D
Mechanics and civil engineering	L2MGC		