



35 research projects supported within the framework of the University of Paris Seine Initiative

Cergy, June 22, 2017 - The University of Paris Seine initiative has chosen to financially support 35 research projects as well as ESSEC's Ph.D. program, for a total of approximately €4.2 million. In total, 131 projects were submitted by researchers and laboratories from the four partner institutions (UCP, ESSEC Business School, EISTI and ENSEA). The call for proposals, launched last April, aims to provide financial support for projects that seek to contribute to the development of scientific excellence as well as the increased attractiveness and international visibility of the region.

The call for proposals, first launched this past April, aims to give researchers the means to **increase their attractiveness and impact** in their field and within an international ecosystem.

Based on the advice of its scientific committee, the executive board of the University of Paris Seine Initiative decided to invest approximately **€4.2 million to financially support 35 research projects and ESSEC's PhD program**. These projects cover all the scientific domains of the initiative: **scientific modeling; the humanities and social sciences; and experimental sciences**.

The proposals that were selected demonstrate an exceptional **capacity to attract talented individuals** – notably by integrating young researchers – to forge new strategic partnerships or to establish their place as a **leading international project**. Additionally, the other projects that were given precedence either encourage the **emergence of new research themes**, aim to strengthen doctoral and post-doctoral programs, increase the attractiveness and **international visibility** of the region, or seek to **develop socio-economic research partnerships**.

"In their evaluation of all the proposals, the members of the committee were sensitive to the considerable scientific quality of the projects, their inclusion of ambitious research development strategies and their potential for international visibility. The number, quality and diversity of the proposals submitted reveal a strong desire within the scientific community of the four institutions to seize the development opportunities offered by the initiative." explains François Germinet, President of the University of Cergy-Pontoise.

In light of the great success of this first call for proposals, a **second one will be launched next year to continue supporting the research** carried out by the University of Paris Seine partner institutions.

[See the list of selected projects in the appendix](#)

The University of Paris Seine Initiative

Last February, the University of Paris Seine Initiative, which brings together UCP, ESSEC Business School, the Community of Universities and Establishments (ComUE) Paris Seine, EISTI, ENSEA and the Cergy-Pontoise region, was granted the I-Site (Initiatives Science, Innovation, Territories, Economy) Investment in the Future Program award.

The main objective of the Paris Seine initiative is to address the global challenges of a changing world, in particular through scientific and technological developments, with a radically international approach. Implementation of the initiative is systematically based on two levers: excellence in research and economic development.

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List of selected projects, in alphabetical order

- *Hy3B : Hybrid Biomimetic Bone Biomaterials*, Michel BOISSIERE and Emmanuel PAUTHE (doctoral contract)
- *Use of Fluorinated Ligands for Inhibition of Rotamases (F-LAIR)*, Thierry BRIGAUD and Grégory CHAUME (post-doctoral contract)
- *Structural properties of non-equilibrium steady states in statistical mechanics: an international collaboration with McGill University*, Laurent BRUNEAU, Thierry DAUDE, Armen SHIRIKYAN (co-financed doctoral contract, post-doctoral contract, guest researcher: Vojkan JAKSIC, Mc Gill University, Canada)
- *Detecting breaks in time series econometric models: a new perspective*, Visiting, Guillaume CHEVILLON and Jeroen ROMBOUTS (guest researcher: Luc BAUWENS, Université catholique de Louvain, Belgium)
- *Statistical physics approach for social problems : modeling multi-group social conflicts*, Hung T. DIEP (guest researchers: Sanda KAUFMAN and Miron KAUFMAN, Cleveland State University, USA)
- *Modeling and prediction of financial times series, with application to risk management*, Paul DOUKHAN (guest researcher: Konstantinos FOKIANOS, University of Cyprus, Cyprus)
- *Sulfur molecules in star-forming regions*, François DULIEU (doctoral contract)
- *... Towards the breathing battery!*, Odile FICHET (co-financed post-doctoral contract)
- *mmWaves - effective transmission techniques for millimeter bands*, Inbar FIJALKOW (post-doctoral contract)
- *GendSwab : Innovative swabbing device for biological sampling for genetic identification*, Olivier GALLET (Investment in scientific equipment and recruitment IGE)
- *A model for data valuation*, Nicolas GLADY (contrat post-doctoral)
- *Stretchable perovskite solar cells elaboration*, Fabrice GOUBARD (co-financed doctoral contract)
- *Innovative Phase Change Building Materials (MCPInnov)*, Ronan HEBERT (doctoral contract)
- *International post-doctoral fellowship in mathematics*, Emmanuel HEBEY (post-doctoral contract)
- *A theory of international commercial arbitration*, Genneviève HELLERINGER, (post-doctoral contract)
- *Intelligent Video-colonoscopy*, Aymeric HISTACE (post-doctoral contract, guest researcher: Jorge BERNAL, Universidad Autonoma de Barcelona, Spain)

- *Electronic and magnetic properties of nano-structures of two-dimensional materials beyond graphene*, Joachim HONECKER and Guy TRAMBLY DE LAISSARDIERE (doctoral contract, post-doctoral contract)
- *Online scheduling of software and hardware tasks for FPGA-based architectures supporting MPMD runtime models (multiple-Program Multiple-Data)*, Lounis KESSAL (co-financed doctoral contract)
- *Advances in Prescriptive Analytics and Operations Research*, Ivana LJUBIC and Laurent ALFANDARI (post-doctoral contract)
- *Tracing the processes of radicalization through the analysis of corpus*, Julien LONGHI (doctoral contract)
- *Cognitive RF-NoC for Massively Parallel Architectures with Distributed Memory*, Jordane LORANDEL (doctoral contract)
- *Lattice hash functions for secret key generation*, Laura LUZZI (doctoral contract)
- *Living in cities with terror: what effects does terrorism have on urban environments?*, Damien MASSON (post-doctoral contract)
- *Managing careers in times of change: The dynamic and adaptive nature of future work selves*, Juija MELL and Karoline STRAUSS (post-doctoral contract)
- *Distributed and robust mobile cloud applications for connected vehicles*, Nga NGUYEN et Rachid CHELOUAH (complement thesis under joint supervision)
- *Static and dynamic asset allocation as part of a regime change model*, Nathalie PICARD (co-financed doctoral contract)
- *Social choice with social influences and spatial interactions*, Marcus PIVATO (doctoral contract, post-doctoral contract)
- *Bio-inspired navigation and planning in large indoor environments with a mobile robot using 3D perception*, Mathias QUOY (co-financed doctoral contract)
- *Contribution to the reduction of seismic risk in the Maghreb: contributions of paleomagnetism, structural magnetism and thermochronology*, Philippe ROBION (complement thesis under joint supervision)
- *Modeling financial variance*, Jeoren ROMBOUITS (post-doctoral contract)
- *Polarization of employment*, Thepthida SOPRASEUTH, (doctoral contract, post-doctoral contract, guest researchers : Michelle RENDALL, Monash University, Australia and Gustavo GONZAGA, Pontifical Catholic University of Rio de Janeiro, Brazil)
- *Exact reduction methods for complex neural networks*, Alessandro TORCINI (doctoral contract, post- doctoral contract)
- *Prodrugs for ANtiviRal and AntituMor Activities (PANoRAMA)*, Jacques UZIEL (post-doctoral contract)
- *Covert communications : from theory to practice*, Ligong WANG (doctoral contract)

- *Organizational cognition in complex adaptative systems : lessons from cognitive psychology and neuroscience*, Maciej WORKIEWICZ (guest researcher: Joshua SKEWE, Aarhus University, Denmark)