

DesCartes programme : hiring

Hiring of 50 Research Fellows, 26 PhD students and twenty engineers.
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The Singapore-French programme DesCartes (2021-2026): intelligent modelling for DEcision making in CriticAl uRban sysTEmS, is looking for 50 Postdoctoral fellows (all experiences) for 2 years contracts, as well as 20 Engineers, with a starting date between October 2021 and October 2024.

We are also recruiting 26 doctoral students from September 2022 (applications to be prepared in November 2021 - start in January 2022 also possible).

Research Fellow – PhD holders [SGD6,000 to SGD7,200];

Research Assistant/ Research Associates – Bachelor Degree/ Master’s Degree [SGD4,000 to SGD6,300]

The areas of research cover the following disciplines:

AI: learning, optimisation...

Engineering: analysis and assimilation of data at the heart of physical systems (hardware, sensors, models, management and decision support), model reduction, virtual or augmented reality techniques, command and control, around energy, structures, NDT and SHM, and complex systems.

Data Sciences,

Signal Processing,

Formal Methods and Trusted AI (explainability and verification),

Human Computer Interaction,

Natural Language Processing,

Images,

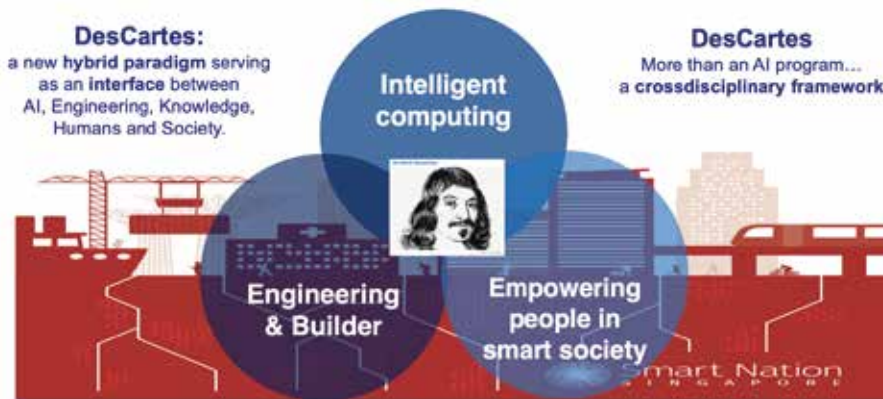
Human Sciences: Philosophy, Law, Communication,

Human-Machine co-creation...

In short, the DesCartes programme is developing a hybrid AI, combining Learning, Knowledge and Reasoning, which has good properties (need for less resources and data, security, robustness, fairness, respect for privacy, ethics), and demonstrated on industrial applications of the smart city (digital energy, monitoring of structures, air traffic control).

The program brings together 80 permanent researchers (half from France, half from Singapore), with the support of large industrial groups (Thales SG, Edf SG, ESI group, CETIM Matcor, ARIA ...).

The research will take place mainly in Singapore, at the premises of CNRS@CREATE, with a competitive salary and generous funding for missions.



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CREATE is an international collaborative housing research centres set up by top universities. At CREATE, researchers from diverse disciplines and backgrounds work closely together to perform cutting-edge research in strategic areas of interest, for translation into practical applications leading to positive economic and societal outcomes for Singapore. The interdisciplinary research centres at CREATE focus on four areas of interdisciplinary thematic areas of research, namely human systems, energy systems, environmental systems and urban systems. More information on the CREATE programme can be obtained from www.create.edu.sg.

Plus d'informations sur <https://www.cnrsatcreate.cnrs.fr/descartes/>

