The National University of Singapore (NUS) consistently ranks in the top 30 in the world overall with particularly high scores for research and international outlook and a standout performance in engineering and technology. The entrepreneurial focus at the university dates back 30 years with the formation of a dedicated centre for innovation and technopreneurship.

3 Postdoctoral positions available in Computational Statistics, Data Assimilation and Inverse Problems

In these projects, the postdoctoral fellow will develop computational methods for inference in complex probabilistic models. Topics of interest include, but are not limited to: PDE constrained Bayesian inverse problems, high-dimensional Monte-Carlo methods (MCMC, particle methods, optimal transport), high-dimensional Data Assimilation (SMC, EnKF, Variational approaches, Hybrid Methods), Bayesian Deep Learning models for inference in data-scarce settings. These project are in collaboration with (i) Abyss Processing, a young and energetic startup specializing in leveraging Deep Learning for medical diagnosis (ii) the Solar Energy Research Institute of Singapore (SERIS). The candidate will work closely with Dr. Alex Thiery and will use this postdoctoral stint to develop a strong research profile that will enable him/her to find a good faculty position.

Applicants should be highly motivated and creative, show an exceptional track record, and hold a Ph.D. degree in Computational Statistics, Computer Science, Signal Processing, Mathematics, or related fields, and be interested in working in an interdisciplinary and multicultural environment. Positions for postdocs who just obtained their Ph.D. degree and for experienced researchers with several years of postdoctoral experience are available. These positions offer the opportunity to gain leadership and supervision experience in joint projects with younger scientists.

Term of Appointment: the **appointment can commence immediately** and will be initially for a period of two years (renewable for a third year).

Benefit: salary commensurate with experience (range: S$70K - S$85K) and includes medical insurance.

Contact Person: Interested candidates are encouraged to directly contact Dr. Alex Thiery (a.h.thiery@nus.edu.sg) for further details.