

A Postdoc position on “Developing DES analysis and supervisory control techniques to be integrated with Digital Twins in response to low volume high mix manufacturing requirements” available immediately at Nanyang Technological University on DES, Singapore

one postdoc position available immediately in the NRF NTU-Delta Corporate Lab project on Smart Manufacturing. The focus is on developing DES analysis and supervisory control techniques to be integrated with Digital Twins in response to low volume high mix manufacturing requirements. The key challenges include model expressiveness for industrial systems and efficient real-time synthesis. The candidate must have a strong background on DES modelling and supervisory control. He or she will work with a team of 3 other postdocs and two research engineers to develop solutions that can be applied to real industrial systems. A Festo Line flexible manufacturing test-bed is available for this research, which provides great opportunities to apply all developed results in a realistic manufacturing environment.

The salary is very competitive including a base salary (S\$4000-5000/month) and an annual performance bonus (of 1-3 months' salary), proportional to the candidate's research experience and actual research output. The first contract is for one year, and can be renewed up to three years. Singapore is a beautiful city state with a lovely weather all year around. An interested candidate may send his/her CV, a list of publications with relevant journal impact factors, and a list of at least two references to me either via my email address at rsu@ntu.edu.sg, or via a mail to:

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A brief introduction to Nanyang Technological University is provided below:

A research-intensive public university, Nanyang Technological University, Singapore (NTU Singapore) has 33,000 undergraduate and postgraduate students in the colleges of Engineering, Business, Science, and Humanities, Arts and Social Sciences, and its Interdisciplinary Graduate School. NTU's Lee Kong Chian School of Medicine was established jointly with Imperial College London. In 2017 NTU was placed 11th in the world and the best in Asia in the Quacquarelli Symonds (QS) World University Rankings. It was again placed the world's best young university (under 50 years old) by QS for the fourth consecutive year in 2017. In addition, NTU was named the world's fastest rising young university by Times Higher Education in 2015. Known for research excellence and technological innovation, NTU leads the top Asian universities in normalised research citation impact (Clarivate Analytics¹ InCites 2016). In the 2017 Nature Index, NTU is placed 35th among the world's universities and first in Singapore. NTU actively pursues partnerships with top universities and runs joint and dual PhD degree programmes with well-established universities. Some of its key partners in academia and

research include Imperial College London, Technical University of Munich, and University of California, Berkeley.

The history of the School of Electrical and Electronic Engineering began as one of the three founding schools of Nanyang Technological University, then known as Nanyang Technological Institute. Today, the School is ranked 12th in the world in the QS World University Rankings by Subject 2018 (Electrical and Electronic Engineering) and has become one of the world's largest schools that nurture competent engineers. Each year, the School produces well-trained graduates who are ready to take on the challenges of the workplace. Enabling unparalleled innovations, the School strives to develop strong research capability to address the complex challenges of the 21st century, while raising the Singapore's profile as a top-notch research hub. The School has an extensive research output in Big Data Analytics, Internet of Things, Intelligent Transportation (V2X), Satellites, Photonics, Autonomous Systems, Power and Energy Engineering, and Biomedical and Health Care. The School has strong industry links, establishing corporate laboratories with Rolls Royce, ST Engineering, SMRT and Delta Electronics, and has an extensive partnership with various universities worldwide.