Tamás Józsa, PhD

Before joining Cranfield University as a lecturer in early 2023, Tamás was a career-bridging fellow at Amsterdam University Medical Centres (Amsterdam UMC) where he evaluated the clinical applicability of computational fluid dynamics. Furthermore, Tamás was a postdoctoral researcher and doctoral research adviser at the University of Oxford between 2018 and early 2023. He worked on the EU HORIZON2020 INSIST (www.insist-h2020.eu) project as a postdoc and developed computational models of cerebral blood flow and tissue health based on clinical data integration. The developed simulation tools helped the INSIST consortium to establish a comprehensive acute ischaemic stroke simulation software suite.

In 2014, Tamás started his PhD studies at the University of Edinburgh. This project was co-funded by AkzoNobel's Marine Coating Business, International Paint Ltd., and the Energy Technology Partnership (ETP). The aim of his project was to investigate the turbulent skin friction reduction potential of compliant coatings using high-fidelity computational fluid dynamics. Resource intensive simulations were carried out on ARCHER, the UK's National Supercomputing Facility.

Tamás earned a mechanical engineering bachelor's degree at Budapest University of Technology and Economics (BUTE) in 2012. Thanks to an Erasmus Scholarship, he completed the computational fluid dynamics and the mechanical engineering modelling MSc courses at Cranfield University and BUTE, respectively. As a master's student, he gained experience in blood flow modelling, lattice Boltzmann solver development, and high-performance computing between 2012 and 2014.