



Zienkiewicz Institute for Modelling, Data and AI



Swansea University
Prifysgol Abertawe

The [Zienkiewicz Institute for Modelling, Data and AI](#) is home to over 160 academic members from across the University, including leading experts in scientific and engineering modelling, computer science, and mathematics. Our team supervises more than 340 PhD students, fostering multidisciplinary research in fields related to modelling, data analytics, and AI.

Our mission is to do advanced and groundbreaking research in mathematical and computational modelling, data science, and artificial intelligence, combining these areas to develop innovative solutions for some of the world's most pressing challenges. The [Zienkiewicz Institute](#) focuses on five key research themes:

- Foundation and Methods for Modelling, Data Science and AI
- Modelling, Data and AI for Climate Action
- Modelling, Data and AI for Agriculture & Health
- Modelling, Data and AI for Materials & Manufacturing
- Modelling, Data and AI in the Social Sciences, Humanities and Economy

Named in honour of Professor [Olek C. Zienkiewicz](#) FRS, FREng (1921–2009) – a pioneer in modelling and simulation and professor of Civil Engineering at the University – the Institute builds on his legacy of excellence in multidisciplinary research.

Institute Directors:

- Professor Arnold Beckmann | a.beckmann@swansea.ac.uk
- Professor Chenfeng Li | c.f.li@swansea.ac.uk

MSc by Research in Modelling, Data and AI

1. This is a 1-year fully research-based MSc programme. Students work on a research project under the guidance of primary and secondary supervisors, with the project agreed upon prior to enrolment. While the programme includes training in modelling, data, and AI technologies, these courses are not assessed - instead, students become members of a vibrant research community, participating in activities such as distinguished seminars, academic conferences, entrepreneurial workshops, and industrial forums.
2. The programme offers multidisciplinary research topics across disciplines affiliated with the Zienkiewicz Institute, in Science & Engineering, Humanities & Social Sciences, and Medicine, Health & Life Science.
3. After successful completion of the programme, students are awarded the degree of *MSc by Research in Modelling, Data and AI*.
4. The total fees for the programme amount to £27,000, comprising a tuition fee of £23,000 and a bench fee of £4,000.
5. The MSc programme offers four entry points throughout the year: 1st January, 1st April, 1st June, and 1st October.

MSc Programme Directors:

- Professor Wulf Dettmer | w.g.dettmer@swansea.ac.uk
- Professor Gibin Powathil | g.g.powathil@swansea.ac.uk



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