



Zienkiewicz Scholarship - 10 Elite International PhDs

Scholarships include full tuition fees paid plus a generous bursary

This scholarship is in honour of the late Professor Olgierd (Olek) Cecil Zienkiewicz, CBE, FEng, FRS. He joined Swansea University in 1961 as Head of the Department of Civil Engineering and was latterly Emeritus Professor of the University. He was an exceptional British Civil Engineer and Scientist who was widely regarded as the “Father of the Finite Element Method”, a computational modelling technique that allows engineers to design ever more challenging structures, aeroplanes or other components and processes with minimal use of expensive experimental testing.

The highly prestigious Zienkiewicz Scholarships are only available to **International students** and reserved only for **top calibre students (minimum of a First Class Honours Degree equivalent, IELTS at 7.0 or equivalent and ideally a Masters Degree and/or experience)** and awards will be allocated on a competitive basis.

There are three World-Class Research Centres with the School and the topics for applicants are;

Multidisciplinary Nanotechnology Centre:

- Nanomaterials and devices - Development of nanocrystals and their implementation into electronic and optical devices with novel properties
- Nanohealth - The application of nanoscale imaging, materials and devices in healthcare
- Chemical/process engineering - Bio-processing, Rheology and water processing and purification
- Telecommunications and Networking

Materials Research Centre:

- Corrosion mechanisms in new generation magnesium alloys
- Lattice-based simulation of solidification microstructure formation under forced convection
- Discrete Element Modelling for Granular Flow Problems.
- Development of High Strength Strip Steels for the automotive market
- Structural Metals and ceramics for gas turbine applications

Civil & Computational Reserch Centre:

- Multifracturing Solids and Particulate Media
- Mesh Generation and Adaptivity
- Computational Fluid Dynamics
- Computational Electromagnetics
- Biomedical Engineering
- Multi-Physics and Fluid Structure Interaction Modelling
- Environmental Modelling
- Design Optimisation Technologies
- Engineering Dynamics and Smart Structures

Making an Application

For those interested in obtaining one of these Scholarships, **please submit a “Declaration of Interest” (CV - including the names of 2 independent references, transcripts and a short PhD proposal).**

Any applications made to the University without a “Declaration of Interest” will not be considered for the Scholarship.

Final decisions on all awards will be made and those who have made a “Declaration of Interest” will be informed by 18th of June .