

Balaji Aresh  
Lecturer  
School of Computing, Engineering and Physical Sciences

## Overview

I'm a Mechanical Engineer by profession with an interest in fracture mechanics. My research interest lies in machining of different materials and welding.

## Employment

### Lecturer

Lecturer  
School of Computing, Engineering and Physical Sciences  
University Of The West Of Scotland  
1 Aug 2023 → present

## Research outputs

### Integration of extended reality (XR) in non-native undergraduate programmes

Aresh, B., Vichare, P., Dahal, K., Leslie, T., Gilardi, M., Lovska, A. & Vatulia, G., 23 Jan 2024, *2023 15th International Conference on Software, Knowledge, Information Management and Applications (SKIMA)*. Geok, T. K., Latiff, N. M. A. & Sheikh, U. U. (eds.). IEEE, p. 285-292 8 p.

### A comparative analysis of the influence of welding current on microstructure and mechanical properties in TIG welded Ti5Al2.5Sn alloy

Rehman, A. U., Khan, F. N., Asif, H., Shehbaz, T. & Aresh, B., 6 Oct 2023, In: *Digital Manufacturing Technology*. 3, 2, p. 164-171 8 p.

### High through-put nanoindentation mapping and indentation creep behavior of P-TIG welded CpTi and Inconel 718 using a Nb-interlayer

Shehbaz, T., Khan, F. N., Junaid, M. & Aresh, B., 31 Dec 2022, In: *Materials Today Communications*. 33, 104994.

### Experimental investigation and numerical simulation of chip formation mechanisms in cutting rock-like materials

Aresh, B., Khan, F. N. & Haider, J., 28 Feb 2022, In: *Journal of Petroleum Science and Engineering*. 209, 17 p., 109869.

### Immobilised insert

Shippen, L. (Inventor), Clack, A. (Inventor), Lambert, D. (Inventor), Aresh, B. (Inventor) & Snowdon, P. (Inventor), 17 Oct 2019, Patent No. US20190316711A1

### Fundamental Study into the Mechanics of Material Removal in Rock Cutting

Aresh, B., Nov 2012

### Investigation into rock mechanics using finite element method

Aresh, B., Daadbin, A., Sarwar, M., Rudd, W. & Burnell-Gray, J. S., 23 Oct 2010.

## Qualifications

Ph.D, Northumbria University  
Award Date: 23 May 2013

Master of Science, Mechanical Engineering, University of Leeds  
Award Date: 23 Nov 2005

Unknown, Bachelor of Engineering, Bangalore University  
Award Date: 1 Mar 2002