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Academic  
SCEDT Engineering  
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Stephenson Street  
Stephenson Building  
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Teesside  
United Kingdom  
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## Qualifications

PhD, Development of Water-based Core Technology for Light Alloys, Teesside University  
20 Sept 2004 → 27 Sept 2008  
Award Date: 6 Jan 2009

Bachelor, The purpose of modifying the composition of Austempered ductile iron (ADI) to improve the wear properties. ,  
Teesside University  
23 Sept 2000 → 30 Aug 2002  
Award Date: 30 Aug 2002

Diploma, Higher National Diploma(BTEC), Middlesbrough College  
15 Jul 1998 → 30 Jun 2000  
Award Date: 30 Jul 2000

Diploma, National Diploma(BTEC), Middlesbrough College  
1 Jun 1996 → 30 Jun 1998  
Award Date: 30 Jun 1998

## Employment

### Senior Lecturer in Engineering

Academic  
SCEDT Engineering  
Teesside University  
1 Sept 2014 → present

### Assistant Design Engineer

TEI Private Limited  
United Kingdom  
1 Jun 2008 → 30 Aug 2008

### Materials Engineer

Oxley Development Private Limited  
United Kingdom  
1 Sept 2007 → 10 Nov 2007

## Research outputs

### Battery Electric Vehicle Lightweighting Strategies: Addressing Energy Consumption and Range Anxiety

Pollock, J., Chong, P. L., Ramegowda, M., Dawood, N., Guo, P. & Moey, L. K., 15 Nov 2024, In: International Journal of Automotive and Mechanical Engineering. 21, 4, p. 11770–11783 14 p.

### Assessing the Efficacy of AI in Transforming Risk Management in the AEC Industry

Ramegowda, M., Adabiri, B. & Al-Mhdawi, M. K. S., 10 Sept 2024, p. 1. 1 p.

### BIM-based approach to manage Basra Oil Company projects

Alsemari, M. A. A. A. & Ramegowda, M., 7 Mar 2024, In: Smart and Sustainable Built Environment.

### **Multi-criteria site selection workflow for geological storage of hydrogen in depleted gas fields: A case for the UK**

Harati, S., Rezaei Gomari, S., Ramegowda, M. & Pak, T., 10 Nov 2023, In: International Journal of Hydrogen Energy. 51, p. 143-157 15 p.

### **Development of Risk Management Framework for Digitalization and AI use in Engineering Projects**

Ramegowda, M. & Siddhardha, V., 3 Sept 2023, *The 33rd European Safety and Reliability Conference (ESREL 2023)*. Brito, M. P., Aven, T., Baraldi, P., Čepin, M. & Zio, E. (eds.). Research Publishing Singapore, p. 2521-2528 8 p. P140

### **Follow-up methods for autonomic repairing process**

Insaurralde, C., Rahman, P., Ramegowda, M. & Vemury, C., 9 Oct 2016.

### **Follow-up Methods for Autonomic Repairing Process - Cybernetic Concrete for Civil Self-healing Structures**

Insaurralde, C., Rahman, P., Ramegowda, M. & Vemury, C., Oct 2016.

## **Awards**

### **KTP - Saturn Turbo Services Limited - 67% Grant**

Ramegowda, M. (Col)  
Innovate UK: £141,124.00  
13/02/25 → 30/09/27

## **Projects**

### **H2DRI: Hydrogen Direct Reduction of Iron - Pilot Furnace and steelmaking (H2DRI Pilot)**

Krishnan, V. V. (Col) & Ramegowda, M. (Col)  
Department for Business - Energy and Industrial Strategy (BEIS) via MPI  
28/03/22 → 30/09/22

### **KTP -Nymas**

Reid, P. (PI), Ramegowda, M. (Col), Hughes, D. (Col) & Martin, D. (Col)  
1/09/18 → 1/09/20

### **StoreH2Safe: Risk Assessment and Study of Operational Safety for the Repurposing of Existing Salt Caverns into Underground Hydrogen Storage (Humber and Teesside Region)**

Rezaei Gomari, S. (PI), Ramegowda, M. (Col), Harris, G. (Col), Harati, S. (RA) & Hughes, D. (Col)  
13/11/23 → 30/09/24

### **To develop the cold agglomeration technology for products suitable for direct reduction and hydrogen direct reduction steel making processes**

Krishnan, V. V. (PI), Russell, P. (Col), Ramegowda, M. (Col) & Patchigolla, K. (Col)  
4/07/24 → 30/09/27

## **Student theses**

### **Development of water-based core technology for light alloys**

Ramegowda, M. (Author), Shelton, P. (Supervisor) & Robson, B. (Supervisor), 27 Feb 2009