WMG has a longstanding relationship with India; from collaborating with the Confederation of Indian Industry to develop a programme of training and internships for Indian companies to help solve the talent crunch, to assisting in the Indian Government’s initiative to increase the number of Indian Institutes of Technology (IIT), including a strategic partnership with the IIT at Bhubaneswar.

In 2013 Professor Lord Bhattacharyya was recognised by IIT Bhubaneswar and awarded an Honorary Doctorate, awarded personally by the President of India, Shri Pranab Mukherjee. Prior to this, in 2008 he was awarded an Honorary Doctorate by IIT Kharagpur, his alma mater, with which WMG is currently involved in collaborative research.

WMG in India

WMG's international reputation stems from our pioneering approach to research in an intensely competitive worldwide marketplace. It is this applied research that underpins our education programmes, transferring our valuable knowledge and expertise to students at all stages of their careers. Over the past 34 years we have created a strong programme with India through partnerships with leading manufacturers and universities.

The University of Warwick

Warwick is one of the UK’s great success stories. In less than fifty years since it was founded, Warwick has become one of the UK’s best universities, selected as the Times and The Sunday Times University of the Year in 2014-15. It is consistently in the top ten of UK league tables and is rapidly climbing the international league tables of world class universities.
About WMG

WMG was founded by Professor Lord Bhattacharyya in 1980 to reinvigorate manufacturing. Since its inception, WMG’s mission has been to improve the competitiveness of organisations around the world through the application of value adding innovation, new technologies and skills deployment, bringing academic rigour to industrial and organisational practice.

Today we are one of the world’s leading research and education groups, with over 500 people working across six buildings on the University of Warwick campus, plus collaborative centres in seven countries. We have an annual programme of £180m which includes industrial and in-kind support.

An academic department of the University of Warwick, we are an international role model for how universities and businesses can successfully work together, as cited in the UK Government and Lambert, Wilson and Witty reviews of university:business collaboration. We are carrying out applied research in fields such as design, materials, manufacturing, systems, business, and healthcare, and leveraging this to provide corresponding education programmes.

We are at the forefront of innovative technology, leading major multi-partner projects to create and develop exciting new processes and products that can lead to major breakthroughs and be of huge benefit to organisations.

These multi-partner projects have seen us working across a wide range of sectors and our field of expertise now extends well beyond traditional manufacturing, automotive, aerospace and rail sectors. It now encompasses areas as diverse as construction, health, pharmaceutical, agriculture, mining, banking and telecommunications. In short, WMG can reach almost any corner of the world or area of the economy.

Facts and Figures

Current activity includes:

- 64 Indian students on our full-time Master’s programme (9%)
- 13 Indian students pursuing research degrees (9%)
- 78 Indian students studying Master’s courses in collaboration with the Confederation of Indian Industry and affiliated companies
- Tata Group/ TVS – custom programmes with over 200 Executives attending

“... Our India programme is one of our oldest and it is very highly valued. We are happy to be a part of the contribution to the skills and gradation of employees of Indian companies. ”

Prof Sujit Banerji
Executive Director of WMG Education

www.wmg.warwick.ac.uk
Education and Research

India Programmes

In 1995 we set up a partnership with the Confederation of Indian Industry (CII) to deliver a Master's degree in Engineering Business Management, in India. This programme continues today and is a flexible, modular-based Master's taken on a part-time basis. It is designed for managers from all 6,000 member companies of the CII.

The CII describes the programme as offering a "win–win situation for both the sponsoring companies as well as the participating managers. The participants acquire better qualifications, and the companies get better-equipped managers as well as work-related assignments and a project on a relevant topic." Administered through the Naoroji Godrej Centre of Excellence in Mumbai, and delivered by WMG tutors, successful candidates receive an MSc from the University of Warwick, UK.

All WMG programmes are founded on industrial and business relevance and are underpinned by our research expertise. The wide range of taught modules that we offer can be tailored to meet specific needs and, when sponsored by the employer, this affords direct benefits for both employee and company through their new found skills.

The value of our custom programmes has been seen by companies across India. At the Bharat Forge headquarters in Pune, for example, we are delivering our MSc in Engineering Business Management to employees from plants in India and worldwide.

Other custom programmes include those with Tata Group, TVS, Bombay Dyeing and Bajaj Auto. With TVS we have developed a 'Project Management Academy' for TVS employees, delivering four separate three-day modules over a period of six months. At Tata Group we have delivered short courses, including Project Management.

We are currently developing an integrated Doctorate and MSc with IIT Bhubaneswar aimed at building a sustainable UK-Indo network of young researchers and entrepreneurs.

Full-time Masters’ Programme

We launched our first full-time MSc programme at the University of Warwick, UK in 1983, and now offer 12 specialist Master's degrees at our headquarters which attract students from all over the world. With over sixty different nationalities currently represented, the international experience affords students the opportunity to learn from others and gain an insight into different cultures. Indian students appreciate that the programme is both a challenging and rewarding learning journey, providing them with both a theoretical and an applied understanding of how successful enterprises operate. Innovative teaching methods ensure that students engage practically with their studies and the combination of business and technical modules, lectures and syndicate exercises, and teaching and research, ensures a balanced, holistic programme.

What is arguably most valuable to our Indian students is that tutors have extensive industry experience and are able to share that knowledge. The proximity to the cutting edge, applied research being conducted across our buildings provides excellent opportunities to feed the very latest findings back into the learning experience.

Flexibility in terms of module and dissertation choice also enables students to direct their learning towards their own specific interests, providing outstanding career opportunities in the global market place.

Research

Research delegations travel frequently between WMG and India, with support from organisations including the Engineering and Physical Sciences Research Council (EPSRC) and the UK-India Education Research Initiative (UKIERI).

WMG was instrumental in setting up a major collaborative research programme with Tata Steel and three leading Indian Institutes of Technology in Kharagpur, Guwahati and Bhubaneswar. This partnership addressed opportunities in four areas: steel forming technologies, advanced assembly techniques, hybrid and multi-material lightweight solutions, and optimisation of performance. Collaborative work with IIT Kharagpur into low-carbon vehicles, medical technology and e-security has been supported by the EPSRC in
the UK. WMG staff also hold visiting professorships at the Indian Institute of Science, Bangalore, and the IITs.

WMG has been working with Tractors & Farm Equipment (TAFE) Limited, based in Chennai, since 2000 on research-based support for the company’s growth ambitions. During this time tractor and implements sales volumes have grown significantly and the company has become the leading exporter of tractors from India to markets in Asia, Europe and North America. The contributions from WMG team members have been focused on strategic business planning and delivery, new product introduction, customer perceived quality and new technology application. This long-running and successful partnership illustrates the benefits of collaborative research between WMG and an industrial partner, applying the research to real-life challenges.

However our partnership with Indian organisations isn’t confined to India itself. Since 2005, Tata Motors have had a European research base at the University of Warwick, with over 340 Tata Motors staff working alongside WMG experts and undertaking large-scale collaborative research projects.

Dr Tim Leverton, Head of Advanced and Product Engineering at Tata Motors Limited said “TMETC plays a vital role in Tata Motors global R&D network. Tata Motors gets access to world class thoughts, skills and technologies through the TMETC and its collaboration with WMG. The contribution of TMETC and WMG is important to Tata Motors product development”.

We are also partners with Tata Motors and Jaguar Land Rover in the National Automotive Innovation Centre (NAIC) due to open at Warwick in 2017. NAIC will provide a national focus and a critical mass of research capability in a 33,000m² purpose built environment, combining expertise nationally and internationally from industry, universities, supply chain companies and SMEs; providing a pipeline of knowledge and people into companies in the automotive supply chain.

In 2013 WMG appointed Professor Sridhar Seetharaman as Royal Academy of Engineering/Tata Steel Chair in Low Carbon Materials, and he has been joined by Professor Claire Davis and Professor Barbara Shollock as Tata Steel Chairs for research in Thermo-mechanical Processing and Advanced Characterisation and Coatings. These appointments strengthen WMG’s rapidly developing relationship with Tata Steel, which will be taken forward through WMG’s new Advanced Steels Research Centre, located close to the Tata Steel R&D Centre being developed on the University campus.

Excellent transport and road links
- 1 hour to London by train
- Nearest airport – Birmingham International
  20 minutes
- Nearest train station – Coventry 10 minutes

**For more information**

**Education:**
Professor Sujit Banerji  
Executive Director of WMG Education  
S.Banerji@warwick.ac.uk

**Research:**
Professor Richard Dashwood  
Academic Director  
R.Dashwood@warwick.ac.uk

**International:**
David Mullins  
Director of International and External Relations  
David.Mullins@warwick.ac.uk