



Institute of
Materials Research
and Engineering

CREATING
VALUE THROUGH
PARTNERSHIPS
& INNOVATION

WORLD-CLASS RESEARCH

Institute of Materials Research and Engineering (IMRE) builds upon its history of research excellence and has evolved into a globally-competitive research institute that creates value through partnerships in today's global economy.



IMRE is driven by the synergy of industry-aligned research projects with core capabilities developed in our R&D groups. Our R&D division comprises internationally-renowned scientists and is focused on aspects of materials synthesis, fabrication and characterisation geared towards practical innovations in product development.

In IMRE, researchers with diverse expertise pursue their research in an open environment that promotes the exchange of knowledge and expertise across the fields, constantly inspiring new ideas. IMRE respects and encourages innovative ideas to take root providing autonomy for researchers to conceive, plan, propose, and drive their own research projects.

High Impact Publications

1. Science, 2014, 343, 1496-1499
2. Nature Materials, 2014, 13, 157-162
3. Nature Materials, 2012, 11, 842-843
4. Nature Nanotechnology, 2012, 7, 557-561
5. Physical Review Letters, 109, 073901
6. Nature Materials, 2011, 10, 968-973

IMRE IS HERE

A World-Class Research Institute

IMRE is a leading materials research institute with a diverse and international group of scientists spearheading value-driven materials research.

Creating Value Through Partnerships

We are a publicly-funded institute seeking to develop innovative technologies and provide sustained value creation for our industry partners. Strength in innovation combined with close industry partners and academia partnerships are key value propositions for IMRE.

Making The World A Better Place

Our research is concentrated on high-growth megatrends, especially Consumer, lifestyle, resource efficiency and globalisation.

IMRE's presence at the forefront of value-driven research is highlighted by its volume of quality publications, patents licensed and ongoing industry collaborations.

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**Spin-off
companies as
at 2013**

>400

**Papers
in 2013***

>12,000

**Citations
in 2013***

405

**Patents filed
or granted
since 1997**

*Figures according to Web of Science (accessed May 2014)

VALUE-ADDED PARTNERSHIPS



- ▶ Provides solutions for material creation, characterisation and integration.
- ▶ Creates sophisticated, productive, reliable, and energy-efficient solutions for various industrial sectors.
- ▶ National leading materials research institute with over 15 years of commitment to delivering innovative materials solutions.
- ▶ As an A*STAR research institute, IMRE invests significantly in R&D to remain world leader in materials research and engineering.
- ▶ Integrates advanced functionality with aesthetic and sustainable solutions to enhance ROI, productivity, and user requirements.
- ▶ Achieves global recognition for its solutions, and is the partner of choice for projects involving third-party integration - from small to large.
- ▶ Ensures that projects are delivered on time and supported through personalised consultation.

Through a unique combination of technology know-how, commercial partnerships and strategic alliances, we develop comprehensive business solutions with focused objectives to assist our customers in the research and development of targeted materials to optimise their initiatives.

With Industry Partners — Customers' R&D development initiatives or optimised material processability are collaboratively outlined and achieved with a team of our own technical and application experts.

We continue to leverage our extensive materials expertise and capabilities through these partnerships by offering full product customisation and full project management support.

With Universities — Our close proximity to the universities enables active collaborations in fundamental development initiatives. Utilising our expertise in materials synthesis, fabrication and prototyping processes together with university innovation capabilities and solution-driven projects, our goal is to continue expanding the use and functionality of our core materials technology.



MISSION: A BETTER WORLD

This era calls for responsible science – innovation linked with humanitarianism, end-user appreciation and sustainability of our planet. IMRE adopts this global vision and develops an array of expertise aimed at bringing about environmental and social sustainability. Through our research activities, we maintain the mission of improving quality of life through innovation.

Megatrends

What will tomorrow's world be like? What are the latest technologies and where are they taking us? What will society need in ten or twenty years time? What does an ageing population mean? Addressing such issues is essential to ensure timely identification of trends and future markets. We have an idea of the future.

Resource Efficiency

At IMRE, we are building technologies to secure energy supply and yet reduce the environmental impact. Our conscientious efforts in developing sustainable materials provide solutions for efficient energy utilisation, energy harvesting and resource conservation.

Consumer, Health and Wellness

By developing advanced materials for cosmetics and personal care products, IMRE brings you one step closer to that dream.

Global Needs: Communications, Diagnostics, Transport

IMRE harnesses its superior technological know-how to tackle key challenges in the areas of Communications, Diagnostics and Transport. We design materials and devices for alternative communication applications and ultra-sensitive detection. We also provide solutions for lightweight and extreme materials for transport applications.

Join us today!

Recruiting and retaining talents are our key priorities. As an institution committed to achieving scientific excellence, IMRE provides continuous training and development to keep our staff at the forefront of materials research and engineering.

If you are dynamic and have a passion for materials research, join us today. Be a member of our cohesive scientific family and we will help you grow and scale new heights in your career.

The Human Resources Department

Email: hr@imre.a-star.edu.sg

Looking for a place for further studies?

A*STAR supports graduate studies at top global universities to pursue a PhD. Advance your research interests and capabilities to better prepare for an R&D career with us.

As a PhD scholar, you will be part of the vibrant scientific community in Singapore and will be given the opportunity to carry out breakthrough research and realise your scientific dreams.



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