Aravind Vijayaraghavan

Professor of Nanomaterials, Department of Materials and National Graphene Institute, The University of Manchester

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Aravind Vijayaraghavan is Professor of Nanomaterials in the Department of Materials and the National Graphene Institute at The University of Manchester, where he leads the Nanofunctional Materials Group. He is Head of Internationalisation (India and Business Engagement) for the Faculty of Science and Engineering. His research covers the science and technology of graphene and other two-dimensional materials, particularly for composites, electronics, sensors and biotechnology. He was previously a senior postdoctoral associate at the Massachusetts Institute of Technology and an Alexander von Humboldt Fellow at Karlsruhe Institute of Technology. He is co-founder of two spin-out companies, Atomic Mechanics and Grafine.

Education

2002–2005	**PhD,** Rensselaer Polytechnic Institute, Troy, NY, USA. Department of Materials Science and Engineering. Advisor Prof. Pulickel Ajayan.
2000–2002	**MEng,** Rensselaer Polytechnic Institute, Troy, NY, USA. Department of Materials Science and Engineering
1996–2000	**BTech,** Indian Institute of Technology Madras, Chennai, India. Department of Metallurgical Engineering

Appointments

2021–present	**Professor of Nanomaterials,** The University of Manchester
2017–2021	**Reader in Nanomaterials,** The University of Manchester
2010–2017	**Lecturer in Nanomaterials,** The University of Manchester. Department of Materials and National Graphene Institute
2009–2010	**Senior Postdoctoral Associate,** Massachusetts Institute of Technology. Department of Chemical Engineering (Strano Research Group)
2006–2009	**Alexander von Humboldt Research Fellow, then Guest Scientist,** Karlsruhe Institute of Technology, Germany. Institut für Nanotechnologie
2004	**Intern,** NTT Basic Research Laboratories, Atsugi, Japan. Materials Science Laboratory
2000–2005	**Graduate Teaching Assistant, then Graduate Research Associate,** Rensselaer Polytechnic Institute, Troy, NY, USA

Research outputs

- 110 peer-reviewed journal publications, including in Nature Nanotechnology, Journal of the American Chemical Society, ACS Nano, Nature Communications and Nano Letters
- Co-author of the textbook An Introduction to Graphene and Carbon Nanotubes (CRC Press, 2017)
- Lead author of invited book chapters on graphene in the Springer Handbook of Nanotechnology (4th edition) and the Springer Handbook of Nanomaterials
- Over 7,500 citations, h-index 50 and i10-index 95 (Google Scholar, February 2026)
- 50+ keynote and invited lectures at international conferences, plus 25 contributed talks and 23 posters
- 8 patents filed

Supervision

- 15 PhD students to completion as main supervisor and 8 as co-supervisor
- 2 MPhil students to completion as main supervisor
- 10 postdoctoral research associates

Awards

2017	**British Science Association Media Fellowship**
2013	**Royal Society Pairing Scheme**
2013	**Fellowship of the Higher Education Academy**
2013	**Joshua Phillips Award for Innovation in Science Engagement**

2006

	Alexander von Humboldt Research Fellowship
2000	**Indian Academy of Engineers Innovation Potential of Students Projects Award**

Leadership and management

2022–present	**Head of Internationalisation (India, Business Engagement)**, Faculty of Science and Engineering
2020–2022	**Head of Business Engagement (Advanced Manufacturing)**, Faculty of Science and Engineering
2023–present	**Academic Line Manager**, Department of Materials
2011–present	**Member of the University of Manchester India Strategy Group**
2012–2015	**Management board member and public engagement coordinator, Graphene/ NOWNANO Doctoral Training Centre**
2016–2019	**Web and Communications Coordinator**, Department of Materials
2014–2022	**Member of the Public Engagement Committee**, Department of Materials
2011–2013	**India PGT Admissions Coordinator**, Department of Materials
2012–2015	**Moderator of the University's Public Engagement mailing list**

Conferences organised

2026	**Graphene India 2026,** Kochi, India (500+ participants)
2024	**UK–India Workshop on Critical Minerals,** Henry Royce Institute, The University of Manchester (100+ participants)
2023	**UK–India Workshop on Critical Minerals,** Henry Royce Institute, The University of Manchester (100+ participants)
2023	**Graphene 2023,** The University of Manchester (500+ participants)

Professional service

2013–present	**UK expert, ISO TS 80004-X Nanotechnologies, and IEC TC113 committee**
2015–2016	**Professional expert, CEN/TC 352/WG 1**
2013–present	**Grant review panels for UKRI (Physical Sciences, Materials), EC funding bodies (COST Actions, Flagship ERA-NET) and US funding bodies (NSF, DOE)**
ongoing	**Peer reviewer for over 20 journals, including Nano Letters, ACS Nano, Advanced Materials, Angewandte Chemie, Journal of Membrane Science, Desalination, Carbon and Scientific Reports**

Knowledge transfer

- Graphene-enhanced elastomer composites from IAA and KTP projects were commercialised through a licensing agreement with Inov-8 Ltd in 2018.
- Research with Karlsruhe Institute of Technology formed a basis for the launch of n.able GmbH and a Molecular Desktop Printer product in 2019.
- Co-founder and non-executive director of two spin-out companies led by researchers from the group, Atomic Mechanics and Grafine.

Outreach

- Since 2011, more than 50 public lectures, and science expert on TV, radio, online and print media.

Updated 2026-02. Publications: https://nanofun.uk/publications/