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WPI-AIMR Summer School of Materials Science, Tohoku University, Japan

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The 2012 WPI-AIMR Summer School of Materials Science (ASSM2012) -Advanced Materials to Build a Better Future- July 23rd to July 29th 2012

WPI-AIMR's top-class international researchers are adding new dimensions to the burgeoning field of materials science, as well as developing innovative functional materials and devices. The interdisciplinary research vigorously conducted there is based on atomic and molecular control. WPI-AIMR was established at Tohoku University in 2007 under the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT)'s World Premier International Research Center Initiative (WPI).

The WPI-AIMR Summer School offers a one-week graduate level summer program focusing on a given theme, such as "Materials Science." The program was designed to inspire and challenge graduate level students in the field of physics, chemistry, materials science, electrical engineering, precision engineering, mechanical engineering, etc. from all over the world. The program provides young professionals with lectures by world-leading researchers and laboratory courses at WPI-AIMR in accordance with the theme, and all instruction is performed in English.

Morning lecture sessions

AIMR world-leading researchers will give a three-hour lecture (including break time) for four days and teach the fascination of Materials Science.

Afternoon laboratory sessions:

1. Candidate students will select from 20 research fields (laboratories) at the time of application, and they will be separated into 15 groups in advance.
2. There are two students per group in principle
3. AIMR researchers will supervise the students in their laboratories for four days.

In addition, ASSM 2012 provides various activities that expose students to the attractiveness of Materials Science and enrich their academic experiences.

Application Procedures

To apply for this program, candidate students need to submit the following documents via email.

1. Application Form for ASSM 2012
2. Copy of your passport (PDF)
3. Copy of registration certificate at your university (PDF)

Eligibility

Applicants must be graduate students enrolled in full time graduate degree programs at their home universities. This program requires students to be fluent in English.

Credits

Participating students are required to take four lectures and laboratory courses in WPI-AIMR, which equate to 50 hours. On completing this requirement, the 2012 WPI-AIMR Summer School of Materials Science (ASSM 2012) should be two ECTS (European Credit Transfer System)* credits. These credits are not conferred at WPI-AIMR.

Students who require credits for this program should inquire at their home universities.

Note: ETCS credits are values allocated to course units to describe the student workload required to complete them. In ECTS, 60 credits represent one year of study (in terms of workload)

Number of Places: 30 graduate students

Location: WPI-AIMR, Tohoku University, Sendai, Miyagi, Japan. Zao Royal Hotel, Zao-cho, Miyagi, Japan

Accommodation and Expenses

Accommodations will be provided, travel expenses (round-trip economy class airfare and rail fare for Shinkansen) will be covered, and costs of stay will be supported by WPI-AIMR.

Application Deadline: May 7, 2012

- Please send us the necessary documents by e-mail.
- If you do not receive a confirmation of receipt from us, please let us know.

Evaluation

Your application will be evaluated mainly based on your description of "4. Academic Details" and "5. Statement of Motivation" in the application form. We may contact your supervisor as the need arises.

Program Fee

- Free (incl. tuition and field trip)
- Travelers insurance, and daily expenses should be paid individually
- Students are advised to prepare sufficient money for food and personal expenses.

List of Laboratory Courses at WPI-AIMR

Bulk Metallic Glasses

- B-1 Making nano-sponge metals
- B-2 Preparation of superalloys (metallic glasses)

Materials Physics

- M-1 Angle-resolved photoemission spectroscopy of Dirac-cone electronic states in layered functional materials
- M-2 Transmission electron microscopy of thin films and nanoparticles
- M-3 Making new materials from heteroepitaxy
- M-4 Fluorescence Microscopy of Bio-Nanosystems.
- M-5 Fabrication and measurements of organic transistors
- M-6 Introduction to advanced Molecular Dynamics (MD) or Monte Carlo (MC) methods
- M-7 Introduction to numerical simulation of scanning probe microscopes (choice: STM, AFM, KPFM)
- M-8 Derivation of a density functional and its implementation to a first-principles calculation program
- M-9 Implementation of a method for the physical property which you want to evaluate using a first-principles calculation program
- M-10 Dynamics and structure of molecular liquids in confined systems: based on classical molecular dynamics simulations

Soft Materials

- S-1 Fabrication and catalytic properties of nanoporous metals
- S-2 AFM-based Elasticity Mapping on Soft Materials
- S-3 AFM-based Force Spectroscopy of Single Polymer Chain
- S-4 Synthesis and Characteristics of Nanoparticles

Device / System

- D-1 Fabrication and characterization of magnetoresistive spin devices
- D-2 Dielectrophoresis technique for microscale organization of cells and microparticles
- D-3 Fabrication of hydrogels for cells encapsulation and drug delivery
- D-4 Preparation of stable single layer graphene oxide solution

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Website: <http://www.wpi-aimr.tohoku.ac.jp/en/index.php>

1. Fully Funded Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
2. Master Scholarships, Faculty of Medicine, Imperial College London, UK
3. Fully Funded YSEALI Academic Fellowship, USA
4. Fully Funded Australia Awards Scholarships
5. Fully Funded GCE A Level Scholarships for Indonesian Students, Singapore
6. Fully Funded Master Scholarships, Kyoto University, Japan
7. Fully Funded Scholarships, Mohamed bin Zayed University of Artificial Intelligence, UAE
8. Fully Funded Scholarships in Astronomy, University of Cambridge, UK
9. Full Tuition Fee LLM Scholarships, University of Warwick, UK
10. Fully Funded Scholarships – Qatar University
11. Fully Funded Scholarships, Bond University, Australia
12. Fully Funded Art Major Asian plus Scholarships, Korea National University of Arts, South Korea
13. Full Funded VLIR-ICP Master Scholarships, KU Leuven, Belgium
14. Fully Funded Fulbright Distinguished Awards in Teaching Program, USA
15. Fully Funded Scholarships, Pukyong National University, South Korea
16. Fully Funded Scholarships, Yeungnam University, South Korea
17. Fully Funded Scholarships, Sungkyunkwan University, South Korea
18. Fully Funded Scholarships, Sunchon National University, South Korea
19. Fully Funded Scholarships, Seoul National University of Science and Technology, South Korea
20. Fully Funded Scholarships, Pusan National University, South Korea
21. Fully Funded Scholarships, Kyungpook National University, South Korea
22. Fully Funded Scholarships, University of New England, Australia
23. Fully Funded Scholarships, Kunsan National University, South Korea
24. Fully Funded Scholarships, Kookmin University, South Korea
25. Fully Funded Scholarships, Kangwon National University, South Korea
26. Fully Funded Scholarships, Jeonbuk National University, South Korea
27. Fully Funded Scholarships, Hoseo University, South Korea
28. Fully Funded Scholarships, Gyeongsang National University, South Korea
29. Fully Funded Scholarships, Dongseo University, South Korea
30. Fully Funded Scholarships, Dongguk University, South Korea
31. Fully Funded Scholarships, Chung-Ang University, South Korea
32. Fully Funded Scholarships, Chonnam National University, South Korea
33. Fully Funded Scholarships, Ajou University, South Korea
34. Fully Funded Graduate Scholarships for International Students, South Korea
35. Fully Funded Fulbright Foreign Language Teaching Assistant, USA
36. Fully Funded Scholarships, CERGE-EI, Czech Republic
37. Full Tuition Fee Scholarships for Female Students from Developing Countries, Swansea University, UK
38. Master Scholarships, University of Twente, Netherlands
39. Fully Funded Sport Management Scholarships, Seoul National University, South Korea
40. Fully Funded ADB JSP Scholarships, Asian Institute of Technology, Thailand
41. Undergraduate Maths Scholarships for International Students, University of Edinburgh, UK
42. Fully Funded Scholarships in Singapore
43. Tuition + Living Allowance Scholarships, University of Waikato, New Zealand
44. Fully Funded Scholarships, Okinawa Institute of Science and Technology, Japan

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1. Beasiswa Penerbit Erlangga - Universitas Bengkulu
 2. Beasiswa Putra-Putri Transmigran Berprestasi - Universitas Gadjah Mada
 3. VLIR-ICP Master Scholarships, KU Leuven, Belgium
 4. Beasiswa UGM - Universitas Gadjah Mada
 5. Women and Diversity Undergraduate Scholarship - PT. Thiess Contractors Indonesia
 6. Art Major Asian plus Scholarship, Korea National University of Arts
 7. Nailekhanim Foundation Scholarship, Khazar University, Azerbaijan
 8. Fulbright Foreign Language Teaching Assistant (FLTA), American Indonesian Exchange Foundation, USA
 9. Eira Francis Davies Scholarship, Swansea University, UK
 10. Beasiswa Mahasiswa - Pemerintah Kota Pekanbaru
 11. Beasiswa Master 2, Prancis
 12. Beasiswa Tematik, Prancis
 13. Beasiswa Kartini Sains, Prancis
 14. Beasiswa France Excellence S2, Prancis
 15. Beasiswa France Excellence D3 / S1, Prancis
 16. University of Waikato Doctoral Scholarship, New Zealand
 17. Asian Development Bank - Japan Scholarship Program (ADB-JSP), Asian Institute of Technology, Thailand
 18. University of Twente Scholarship (UTS), Netherlands
 19. Australian Government Research Training Program (RTP) Scholarship, Bond University, Australia
 20. Australia Awards Scholarships
 21. Faculty of Medicine Dean Master Scholarships, Imperial College London, UK

22. International Graduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST)
23. Asian Future Leaders Scholarship Program, Kyoto University, Japan
24. Beasiswa Bantuan Penelitian - Bank Indonesia Institute
25. Beasiswa Mahasiswa Berprestasi Non Akademik - Provinsi Kalimantan Barat
26. Future Leader Scholarship, LASALLE College of the Arts, Singapore
27. Beasiswa Talenta Atlet, Seni dan Sains - Universitas Muhammadiyah Yogyakarta (UMY)
28. Beasiswa Kader Unggulan Muhammadiyah (KAUM) - Universitas Muhammadiyah Yogyakarta (UMY)
29. Beasiswa Dokter dan Dokter Gigi Muhammadiyah - Universitas Muhammadiyah Yogyakarta (UMY)
30. Talent Scholarship - Qatar University
31. PhD Scholarships in Economics, CERGE-EI, Czech Republic
32. Fulbright Distinguished Awards in Teaching Program for International Teachers (Fulbright DAI), USA
33. Beasiswa Jalur Prestasi, D3 Teknologi Pengolahan Kelapa Sawit, Institut Teknologi dan Sains Bandung
34. Beasiswa SMART Mills - PT Sinar Mas Agro Resources and Technology Tbk
35. Beasiswa SMART Agro - PT Sinar Mas Agro Resources and Technology Tbk
36. Vice Chancellor's International Excellence Scholarship, University of Waikato, New Zealand
37. Boustany Astronomy Scholarship, University of Cambridge, UK
38. Boustany Cambridge Pembroke Scholarship in Philosophy, University of Cambridge, UK
39. Vice-Chancellor's International Scholarships Scheme, University of Sydney, Australia
40. Edinburgh Global Undergraduate Mathematics Scholarships, University of Edinburgh, UK
41. PhD Scholarships, Singapore International Graduate Award (SINGA)
42. PhD Scholarships, United Arab Emirates University, UAE
43. International Postgraduate Research Award (IPRA), University of New England, Australia
44. ASEAN Scholarships for Indonesia by Ministry of Education, Singapore
45. Master and PhD Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
46. Fully Funded PhD Scholarships, Okinawa Institute of Science and Technology Graduate University, Japan
47. Dr Goh Keng Swee (GKS) Scholarship for Undergraduate Students, Singapore
48. Graduate Scholarships, Mohamed bin Zayed University of Artificial Intelligence, UAE
49. Master & PhD Scholarships, Honjo International Scholarship Foundation, Japan
50. ASEAN Graduate Scholarship, Nanyang Technological University, Singapore
51. Bond University Postgraduate Research Scholarship (BUPRS), Australia

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