



International career development opportunities with INL and Marie Curie Actions

Introduction

The International Iberian Nanotechnology Laboratory (INL) is launching the third call within its post-doctoral fellowship programme – The NanoTRAINforGrowth Programme. INL's international Post-doctoral fellowship programme allows for experienced researchers (from all over the world and of all nationalities) to sketch out a research project and work on their own research idea at INL's facilities. The fellows will have a chance to work on breakthrough science; will have access to cutting-edge technologies, to new state-of-the-art infrastructure and to personal career assistance.

What is the NanoTRAINforgrowth Programme?

NanoTRAINforGrowth is funded under the COFUND Marie Curie Action under the European Commission's 7th Framework Programme. This programme will offer a two-year employment contract, for the selected fellow to develop their research project at INL's facilities.

What are the programme's scientific fields?

- **Nanomedicine:** molecular diagnostics systems and chips, cell therapies, imaging solutions, drug delivery systems, biomolecular labels, neuro-electronics, etc.
- **Environmental and food control:** Nanotechnology applied to food industry, food safety and environmental control. Water and soil control, air pollution monitoring. Artificial nanopore sensors, lab-on-a-chip technologies, smart packaging and labels, food control processes, biosensing technologies.
- **Nanoelectronics:** NEMS/MEMS, spintronics, photonics, nanofluidics, carbon-based devices (graphene, CNTs), molecular electronics, nanotechnologies to support the above research areas.
- **Nanomanipulation:** Single molecule/atom manipulation, molecular motors, nanotweezers, controlled self-assembly of building blocks for nanodevices.

Who can apply?

NanoTRAINforGrowth will fund experienced researchers that are in Possession of a **PhD degree** (at call deadline) and with **less than 10 years of full-time research experience** (including the time taken to acquire the PhD). **Applicants may originate from any country inside or outside Europe. It is mandatory to submit a maximum 10 page research proposal.**

How to apply?

The application is made online through the programme portal at:
http://inl.int/job_offers?tab=research-fellows

The DEADLINE for application: 20 July 2014 - 23:00 Lisbon time



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 600375.





CARDIFF
UNIVERSITY

PRIFYSGOL
CAERDYDD

Faculty Position

(Senior Lecturer/Lecturer)

Low Energy Electron Microscopy (LEEM)

Cardiff University

The full time (35 hours per week) appointment will be made at a level commensurate with experience.

Salary:

Lecturer:

£30,728 to £36,661 per annum (Grade 6)

Lecturer:

£38,907 to £45,053 per annum (Grade 7)

Senior Lecturer:

£46,400 to £53,765 per annum (Grade 8)

Applications are invited for a position in a newly established low energy electron microscopy (LEEM) group within the School of Physics and Astronomy at Cardiff University. Applicants will utilize LEEM to investigate advanced electronic materials (e.g., compound semiconductor quantum structures) with a strong personal vision to expand the research and develop new techniques in surface electron microscopy. The position requires a strong experimental background relevant to the application of LEEM, or similar techniques, to the study of nanoscale growth mechanisms.

The successful candidate will take on a leadership role in running the LEEM laboratory, undertake experimental research that will generate high impact journal publications, and present their work at international conferences. The appointee will also be expected to develop and write collaborative research grant proposals and contribute to the School's undergraduate and postgraduate teaching.

Informal enquiries can be made to Professor David Jesson by email at jessonde@cardiff.ac.uk.

Please apply online at <http://www.cardiff.ac.uk/jobs/>, Academic Vacancy 1988BR

CLOSING DATE: SUNDAY, JUNE 22, 2014



Applications Scientist & Postdoctoral Positions

Atom Probe Tomography (APT)

Madison, Wisconsin

We are looking for a pair of talented individuals to join our applications development team in the fast growing area of nanoscale characterization using APT.

CAMECA is the world leader in APT, a technique which offers both 3D imaging and chemical composition at the near-atomic scale. The number of new APT applications is rapidly expanding and this is the chance to get in on the ground floor.

Experience with APT and electron microscopy techniques is highly desired. Both positions require a PhD in Materials Science, Physics, or closely related discipline.

For complete position descriptions visit www.atomprobe.com. All applications will be reviewed as received until each position is filled.



THE Ames Laboratory

Creating Materials & Energy Solutions

U.S. DEPARTMENT OF ENERGY

SCIENTIST Novel and Emerging Materials

The Ames Laboratory, a United States Department of Energy national laboratory affiliated with Iowa State University is seeking candidates for a scientific leadership position in the area of novel and emerging materials.

The position will be filled at the Scientist I or II level, dependent on the qualifications of the selected candidate. Position requires PhD degree in physical sciences plus a minimum of five years of research experience in various aspects of materials processing and characterization. A successful track record in writing proposals for research funding, and a strong publication record in the field is required. Candidates at the Scientist II level require a demonstrated national/international standing within the discipline by the scientific community.

For complete description, preferred qualifications, and application instructions, please see **Vacancy #140312** at www.iastatejobs.com. To ensure consideration, applications must be submitted by **July 31, 2014**.

Iowa State University is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, genetic information, national origin, marital status, disability, or protected veteran status, and will not be discriminated against. Inquiries can be directed to the Director of Equal Opportunity, 3350 Beardshear Hall, 515-294-7612.



RESEARCH POSITIONS

National Institute for Materials Science

The National Institute for Materials Science (NIMS) is an Independent Administrative Institution (IAI) research center, which was established with the mission of improving the level of materials science and technology in Japan.

NIMS invites applications for **permanent researcher positions** (age retirement system) from the beginning of June, 2014. We welcome applications from female researchers, non-Japanese researchers, and researchers who have careers in private companies.

To view the complete announcement including research field, how to apply, application document, qualifications, arrival date, deadline for receiving applications, etc., visit <http://www.nims.go.jp/eng/employment/permanent-staff.html>. The job information will be posted in early June, 2014.

CONTACT: Human Resources Development Office, Planning Division
National Institute for Materials Science (NIMS)
1-2-1 Sengen, Tsukuba-city, Ibaraki 305-0047 JAPAN
nims-recruit@nims.go.jp



The J. Paul Getty Trust

SCIENTIST

Science Department • The Getty Conservation Institute

RESPONSIBILITIES

The Getty Conservation Institute (GCI), located in Los Angeles, California, and one of the operating programs of the J. Paul Getty Trust, works internationally to advance conservation practice in the visual arts, broadly interpreted to include objects, collections, architecture, and sites. The Institute serves the conservation community through scientific research, education and training, model field projects, and the broad dissemination of the results of both its own work and the work of others in the field. In all its endeavors, the GCI focuses on the creation and dissemination of knowledge that will benefit the professionals and organizations responsible for the conservation of the world's cultural heritage.

The GCI's Science Department is seeking an individual with a background in Materials Science and Engineering to fill the position of **Scientist**, which is a five-year, limited-term position. The Scientist will join the research team for the Managing Collection Environments Initiative, which was launched at the end of 2013. The Initiative focuses on the research and development of sustainable environmental control and management strategies for collections in museums, libraries, archives, and other repositories. The initiative will have several complementary activities—including, field testing, education, and information dissemination—in an initial program of work that spans five years.

Please see: http://www.getty.edu/conservation/our_projects/education/managing/index.html

The Scientist will report to the Senior Scientist in charge of preventive conservation research and will be part of an interdisciplinary team of conservators and scientists. The GCI team will coordinate its activities with international researchers and practitioners. The

Scientist will liaise with internal and external colleagues and will contribute to the dissemination of the results in the conservation field.

The Scientist will carry out research and will address critical questions pertaining to the behavior of materials under a range of environmental conditions. Specifically, the Scientist will model mechanical properties of a range of hygroscopic materials under environmentally stressed conditions, employing a variety of mechanical testing techniques to establish the relationship between elastic modulus and time, temperature, and relative humidity to yield and failure. The research will explore stress relaxation and fatigue for a series of natural products and modern materials used in the creation of works of art. The focus will be materials of the artist and conservator, not building materials.

QUALIFICATIONS

The Scientist must have: 7-10 years of scientific research experience with experience in the field of heritage conservation, including demonstrated experience managing scientific research projects; and a PhD degree in Materials Science, or Mechanical Engineering with a strong interest in materials science. Hands-on familiarity with computing tools such as FEM, MathCAD, ABAQUS and/or Ansys is strongly desired as well as experience with nano-indentation and DMA testing, acoustic emission, or similar techniques. The successful candidate must be adaptable, analytical, and a creative problem-solver and thinker, and is expected to be a strong team member with excellent communication skills.

He/she must be available for occasional travel internationally, including trips that may be several weeks in duration.

International candidates welcome. An excellent benefits package and salary commensurate with experience will be provided. This position is limited-term (five years).

To apply, please see <https://jobs-getty.icims.com/jobs/2233/scientist/job>. All applicants should be prepared to upload a cover letter and curriculum vitae as a single file (either a PDF or a Word document) when prompted to upload a Resume online. Candidates who successfully complete the online application process will receive an automated message from "autoreply@icims.com". If you have specific questions about the Scientist position, please email gcistaffing@getty.edu. **Deadline for applications is June 30, 2014.**