

Karolinska Institutet

is looking for a

Post-doc in nano-immunotoxicology



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| Workplace: | Karolinska Institutet |
| Department / unit or equivalent: | Institute of Environmental Medicine (50%) and Department of Medicine (50%) at Karolinska Institutet |
| Form of employment: | Temporary |
| Scope: | Full-time |
| Time period: | Two years |
| Description of the work group/equivalent and its work/focus: | The current study is part of a multidisciplinary European Commission 7 th Framework Programme (FP7) funded project NANOMMUNE that studies the effects of nanosized particles (< 100 nm) on the immune system. The project has partners in Europe and the USA and is coordinated by Karolinska Institutet. The application of nanomaterials is increasing in a great diversity of products however there is still limited knowledge on the adverse effects on human health. The FP7 project joins the knowledge of materials science, cell biology, toxicology, biochemistry, systems biology and risk assessment to study the immunotoxic impact of engineered nanomaterials. The two research units at Karolinska Institutet will combine their expertise to study the toxicological effects of various classes of nanomaterials on antigen-presenting cells, such as macrophages and dendritic cells. |
| Area of responsibilities/duties: | The applicant will work partly in the Institute of Environmental Medicine (Assoc. Prof. Bengt Fadeel, Division of Biochemical Toxicology) and partly in the Department of Medicine (Prof. Annika Scheynius, Clinical Allergy Research Unit). He/She will study the effect of various nanomaterials on primary human macrophages and dendritic cells <i>in vitro</i> e.g. by using fluorescent imaging and biochemical analysis. Furthermore, protocols and methodologies for systematic analysis of immunotoxic effects of nanomaterials <i>in vivo</i> will also be developed. Exchange of group members between labs within the NANOMMUNE project to share expertise may occur. |
| Qualifications: | <p>We are looking for a PhD in cell biology/immunology with a strong interest in immunology and toxicology. Experience with the following techniques is preferred: cell culture, cell death assays, Western Blot, FACS, ELISA, confocal microscopy, <i>in vivo</i> imaging and animal work. Excellent communication skills (English) and an ability to interact socially and scientifically with other post docs and students in the laboratory are essential.</p> <p>Karolinska Institutet defines a postdoc as an individual who holds a PhD awarded within the last five years, in exceptional cases, this five-year period can be extended by one year owing to circumstances such as parental leave, internship, illness or military service.</p> |
| Contact | Assoc. Prof. Bengt Fadeel, bengt.fadeel@ki.se , Tel + 46 8 524 877 37 Prof. Annika Scheynius, annika.scheynius@ki.se , Tel + 46 8 517 759 34 |
| Application procedure: | Please send your application, marked with reference number 3677/2008 including the following documents: <ul style="list-style-type: none">• CV including date of public thesis defense and previous positions• Complete list of publications• short statement of research interests• names and contact information of at least 2 references |
| Application sent to: | In the first instance to KI jobb or Karolinska Institutet Lena Nirland Box 210 17177 Stockholm Lena.Nirland@ki.se |
| Reference number: | 3677/2008 |
| Last date for applications: | 15 October 2008 |

Union
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General:

Karolinska Institutet is one of the leading medical universities in Europe. Through research, education and information, Karolinska Institutet contributes to improving human health. Each year, the Nobel Assembly at Karolinska Institutet awards the Nobel Prize in Physiology or Medicine.

Karolinska Institutet offers 20 training programs in the field of medicine and conducts more than 40% of all medical academic research in Sweden. By being a centre for innovation within life science, Karolinska Institutet contributes to growth in Sweden and the Stockholm region. For more details see http://info.ki.se/index_en.html

The Institute of Environmental Medicine, a department at Karolinska Institutet, is an interdisciplinary research organization within the field of Environmental Medicine. The purpose is to carry out research and education, and perform investigations and analyses, pertaining to physical and chemical aspects of environmental medicine and health protection.

The overall objective of the research at the Clinical Allergy Research Unit is to increase understanding of the mechanisms that determine whether or not an exposed individual will become sensitized to allergens and how to modify immune responses. The approach is to combine basic experimental research with clinical and epidemiological research, transferring questions and knowledge between the laboratory and the clinic. The Unit has broad international and national scientific collaboration in several networks with competence spanning from clinical sciences, epidemiology, immunology, microbiology, molecular and cell biology, to genetics, proteomics and nanotechnology.