

**Ilse Katz Institute**  
**for Nanoscale Science and Technology**  
**Ben-Gurion University of the Negev**  
**Beer-Sheva, Israel**

**Research Associate in Advanced Analytical Electron Microscopy**

**Announcement date: 29 March 2010**

**Closing date: We will start reviewing applications after April 05th 2010 and the search will continue until the position is filled.**

The 'Ilse Katz Institute for Nanoscale Science and Technology' is a research center at Ben-Gurion University, which brings together a community of scientists whose research topics are related to the understanding and manipulation of matter at reduced dimensionality. For that aim, the center has invested in a range of state-of-the-art materials characterization tools, in particular electron microscopy.

We are looking for a highly motivated Ph.D. level researcher, with experience in electron microscopy, preferably in analytical methodologies (EELS, EDX, STEM - HAADF, Holography).

The person appointed will have a range of responsibilities focused around a newly installed analytical JEOL JEM-2100F S/TEM.

**Responsibilities:**

- Providing service for advanced operation of a JEOL JEM-2100F TEM/STEM instrument.
- Training and advising users (graduate students and researchers) on the analytical capabilities of the microscope, up to achieving an independent user status.
- Assisting users with data analysis (EELS / EDX / STEM - HAADF / Holography / High-resolution TEM image simulations).
- Developing and advising on related TEM sample preparation equipment.
- Performing routine maintenance of the microscope and related sample preparation equipment.
- Liaison with instrument service engineers and external users from other universities, research institutes and local industry.
- Managing routine operation of the analytical TEM (logs, book-keeping, billing, maintenance records, inventory, and consumables purchases).
- Overseeing safety aspects of the Laboratory.
- Liaison with personnel from the Facilities Department with regard to environmental issues in the microscopy lab.
- Organization of, and participation in, workshops and training.
- Providing outreach for schools and the general public.

**Further information:**

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**Website:**

**Information about the IKI center and Ben-Gurion University can be found at:**

<http://web.bgu.ac.il/Eng/Centers/nano/default.htm>

<http://web.bgu.ac.il/Eng/Home/>

**Applications:**

Please send your CV and names of two references to Dr Carmen Segall (see contact details below). We request that in your letter of intent, you address how your experience fits the requirements for this position.

Dr Carmen Segall  
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