



Council of Scientific and Industrial Research

National Aerospace Laboratories

Bangalore 560 017

Advertisement No. KTMD/SED-JRF/2/2014

Apply online before 25 June 2014

National Aerospace Laboratories is one of the largest CSIR Laboratories and its primary objective is to offer R&D support in aerospace engineering and related areas. NAL proposes to recruit ONE Junior Research Fellow for a period of TWO YEARS to work on a research project, related to '**Development of low thermal conductivity bilayered plasma sprayed thermal barrier coating using indigenously prepared powders**' funded by BRNS.

Qualification: M.Sc. (Chemistry)/M.Sc. (Materials Science) with First Class

Desirable: NET/GATE qualified

Stipend: Rs 16,000 + HRA as per BRNS rules. Upper age limit 28 years as on **25 June 2014** relaxable by 5 years for SC/ST, physically handicapped and 3 years for OBC candidates.

Note: Apply online in our specially designed Electronic Application Form available on our website: www.nal.res.in under the caption 'Announcements'.

The short-listed candidates will be called for an interview. The date of the interview will be intimated by e-mail. No TA/DA will be paid for attending the interview.

Science and Engineering Research Board (SERB)

A statutory body under the Department of Science and Technology, Government of India

Call for Project Proposals on Earth's Critical Zone Research

The Science and Engineering Research Board (SERB) invites project proposals from Indian scientists to carry out multi-disciplinary research on Critical Zone in different geologic and climatic domains of India.

The Earth's Critical Zone (CZ) is defined as heterogeneous segment extending from the surface to the aquifer in which complex interactions involving rock, soil, water, air and living organisms regulate the natural habitat and determine availability of life-sustaining resources. Weathering processes, water movement, soil formation and erosion combine to control landscape evolution, carbon sequestration, nutrient cycling and microbial activity within CZ. It is important to study the processes and multiple feedback loops that control landform evolution, soil formation, hydrologic and geochemical cycling in order to understand the present status of CZ and predict how CZ will change in response to anthropogenic and climatic perturbations. This makes CZ as one of the most compelling and challenging research areas in Earth Sciences in the 21st century.

Project proposals are invited on CZ research theme as outlined above, particularly in any of the following areas:

- Landform, ecosystem and climate interactions
- Soil-landform system
- Hydrology and flux flow within CZ
- Modern and ancient weathering and erosion system
- Geomicrobiology and geochemical cycling

Project proposals may be submitted to the Earth Sciences PAC under the EMR Scheme through online at www.serbonline.in for consideration by SERB **within two months** of publication of this call.