Application on plain paper along with complete bio-data, attested copies of the certificates is invited for the following positions

(1) 3 – Ph.D. Position under J C Bose Fellowship Project of DST, Government of India

**Broad Areas of Research:** Ultra low friction and hydrophobic materials, Ultra high strength and ductile intermetallic based nanocomposites, Biodegradable magnesium alloys, Additive manufacturing.

**Duration:** 4 years; **Emolument:** Rs 18,000/month + HRA @20%; **No. of post:** 3 SRF.

**Qualification:** M.Tech. in Metallurgy/Mechanical/Production Engineering/Nanotechnology or M.Sc. in Material Science/Physics with a minimum of 60% having good academic record. Candidates having GATE/NET will be preferred.

**Contact person:** Dr K. R. Ravi, Assistant Professor, PSG Institute of Advanced Studies, P.B. No. 1609, Coimbatore 641 004, e-mail: krravi.psgias@gmail.com

Short-listed candidates will work under the co-supervision of Prof. Baldev Raj (http://www.igcar.ernet.in/director/index.htm), J.C Bose National Fellow, President of Research in PSG Institutions, President of Indian National Academy of Engineering and Former Director of Indira Gandhi Centre for Atomic Research, Kalpakkam and Dr K. R. Ravi, Assistant Professor, PSG Institute of Advanced Studies (http://www.psgtech.edu/psgias/Dr.K.R.Ravi.html). Students shall be provided with opportunities to collaborate with eminent scientists and access to state of art facilities available in India and abroad to enable them pursue front line research.

(2) Junior Research Fellow under DST Nanomission Project (No. of post – 1 JRF)

**Title:** Nanostructured TiO$_2$ as Active Support Material for the Electrocatalysts of the Direct Methanol Fuel Cells.

**Duration:** 3 years; **Emolument:** Monthly: Rs 16,000 (first 2 yrs), Rs 18,000 (3rd year)+ HRA @20.

**Qualification:** M.Phil./M.Sc./M.Tech. in Chemistry/Physics/Material Science/Chemical engineering/ Nanoscience and Technology with a minimum of 60% having good academic record and basic knowledge in Nanoscience. Candidates having NET/GATE will be preferred.

**Contact person:** Dr R. Manoharan, Professor in Nanotechnology, PSG Institute of Advanced Studies, P.B. No. 1609, Avinashi Road, Coimbatore 641 004, e-mail: krsmano@gmail.com

(3) Senior Research Fellow under National Programme on Micro and Smart Systems (NPMASS) Project (No. of post – 1 SRF)

**Title:** Fabrication of PDMS based platform/Micro fluidics based microPCR for the detection of oncogenic miRNAs in retinoblastoma patient’s serum.

**Duration:** 2 years; **Emolument:** Monthly: Rs 16,000/month (consolidated).

**Qualification:** B.Tech. (with first class)/M.Tech. in Electronics and Communication Engineering or Electrical and Electronics Engineering/Biomedical Engineering, familiar with MEMS design for microfluidic applications.

**Contact person:** Bindu Salim, Principal Investigator, PSG Institute of Advanced Studies, P.B. No. 1609, Avinashi Road, Coimbatore 641 004, e-mail: bbs@ias.psgtech.ac.in/bindusalim@ieee.org

(4) Junior Research Fellow under DST–SERB Project (No. of post – 1 JRF)

**Title:** Synthesis and Characterization of functionalized Ruthenium Complexes for Dye-Sensitized Solar cells

**Duration:** 3 years; **Emolument:** Monthly: Rs 16,000 (first 2 years), Rs 18,000 (3rd year) + HRA @20%.

**Qualification:** M.Phil./M.Sc., in General/Inorganic/Organic Chemistry with a minimum of 60% marks and having good academic record. Candidates having NET/GATE will be preferred.

**Contact person:** Dr R. Venkateswaran, Assistant Professor, PSG Institute of Advanced Studies, P.B. No. 1609, Avinashi Road, Coimbatore 641 004, e-mail: vnrvenkat@gmail.com

Applications should reach the respective contact person, by post as well as through e-mail within 20 days from the date of appearance. No TA/DA will be paid for attending the interview. Successful candidate will be advised to register for Ph.D.