



राष्ट्रीय पशु जैव प्रौद्योगिकी संस्थान  
National Institute of Animal Biotechnology

(An Autonomous Institute of Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India)  
Survey No. 37, Opp. Journalist colony, Extended Q City Road, Near Gowlidoddi, Gachibowli, Hyderabad-500 032  
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Advt. No. 05/2023



Applications are invited from suitable candidate for filling up the following positions at National Institute of Animal Biotechnology (NIAB), Hyderabad.

**Post Code:** Senior Project Associate (1 Positions),

**Project:** Therapeutic protein production in milk of farm animals to increase their affordability.

**PI:** Dr. Nirmalya Ganguli.

**Tenable upto:** September 2024.

**Eligibility:**

**For Senior Project Associate (1 Positions):**

Masters Degree in Life Sciences (Biotechnology, Biochemistry, Microbiology, Etc.) from a recognized university or equivalent along with 4 years of experience in Research and Development in Academic Institutions or Science and Technology Organisations.

or

Doctoral Degree (Ph. D.) in Life Sciences (Biotechnology, Biochemistry, Microbiology, Etc.) from a recognized university or equivalent.

Candidate with experience in any of the following will be preferred.

**Experience:** (Candidate with prior experience in any of the following area will be preferred.)

- i. Isolation and culture of mice/goat oocyte. In-vitro fertilisation of mice/goat oocyte.
- ii. Retrieval of mice embryo followed by microinjection of embryo. Embryo transfer in pseudo pregnant female mice.
- iii. Handling and experimentation on rodent and goat model.
- iv. Generation of expression vector for genome editing (knock-out and knock-in) using CRISP – Cas9 tools,
- v. Regulation of gene expression by shRNA mediated knock down,
- vi. Cell sorting by FACS/MACS, single cell sorting and generation of cell lines,
- vii. Isolation and culture of Stem cells, transfection and maintenance of stem cells, generation of iPSC, isolation and culture of cells from different tissue sources,
- viii. Various molecular biology techniques, like RT-PCR, QRT-PCR, Immuno histochemistry, Immune cytochemistry, Droplet Digital PCR, protein purification and western blot analysis,
- ix. Generation of expression vector by molecular cloning and its invitro characterization, culture and maintenance of cell lines,

**Fellowship amount:** Rs. 42000/- PM + HRA as per the DST guidelines dated 10<sup>th</sup> July 2020.

**Age:** 35 years (Relaxation is admissible in case of SC/ST/OBC candidates as per Government instructions).

**Post Code:** Senior Research Fellow (1 Position)

**Project:** Development of transgenic chicken as bioreactor for easy and cost effective production of human therapeutic proteins - tissue plasminogen activator (htPA) and erythropoietin (hERP). PI: Dr. Nirmalya Ganguli.

**Tenable upto:** July 2025.

**Eligibility:**

**For Senior Research Fellow (1 Position):**

Post Graduate Degree in Life Sciences (Biotechnology, Biochemistry, Microbiology, Etc. with 2 years duration) with 3 years bachelor's degree and NET qualification along with 2 years of research experience in any of the following.

**Experience:** (Candidate with prior experience in any of the following area will be preferred.)

- i. Various molecular biology techniques, like RT-PCR, QRT-PCR, Immuno histochemistry, Immune cytochemistry, Droplet Digital PCR, protein purification and western blot analysis,
- ii. Generation of expression vector by molecular cloning and its invitro characterisation, culture and maintenance of cell lines,
- iii. Generation of expression vector for genome editing (knock-out and knock-in) using CRISP – Cas9 tools,
- iv. Regulation of gene expression by shRNA mediated knock down,
- v. Cell sorting by FACS/MACS, single cell sorting and generation of cell lines,
- vi. Isolation and culture of Stem cells, transfection and maintenance of stem cells, generation of iPSC, isolation and culture of cells from different tissue sources,
- vii. Signal Transduction study by functional genomics.
- viii. Handling and experimentation on rodent and goat model,

**Fellowship amount:** Rs. 31000/- PM + HRA for candidates with National Eligibility Test (NET) qualification.

**Age:** 35 years (Relaxation is admissible in case of SC/ST/OBC candidates as per Government instructions).

Applications are to be filled ONLINE. Online link for submission of application is available from **11-02-2023** and the last date is **27-02-2023**. Candidates must fill online application form at **www.niab.res.in**. Candidates are advised to fill the online application form in sufficient time before the last date to avoid last minute technical issues. No need to send hard copy. Interim enquiries will not be entertained. Suitable candidates will be screened, intimated through email and interviewed by duly constituted selection committee online through zoom meeting/google meet/skype. Original documents in support of date of birth, educational qualifications, experience certificates are required to be submitted at time of joining.