



Birla Institute of Technology and Science, Pilani

Pilani Campus

Vinti Agarwal

Assistant Professor, Department of Computer Science & Information Systems

CALL FOR RESEARCH POSITION (JRF/SRF) IN INDO-AUSTRALIAN COLLABORATION PROJECT

Applications are invited from suitable candidates for one fellowship position — as either Junior Research Fellow (JRF) or Senior Research Fellow (SRF) depending on the eligibility and experience — to work on the following Indo-Australian project (between BITS Pilani and CSIRO Australia) sponsored by Australian Government, under the supervision of Dr. Vinti Agarwal, Assistant Professor, Department of Computer Science & Information System, BITS-Pilani, Pilani Campus, Rajasthan and co-supervision of Professor S.S. Vasan of Australia's national science agency CSIRO.

Title of the project: The 'sySTEMs' initiative: systems biology-augmented, stem cell-derived, multi-tissue panel for rapid screening of approved drugs as potential COVID-19 treatments.

For more details see <https://bioinformatics.csiro.au/blog/covid-19-drug-repurposing/>

Duration of the project: one year

Project position and number: JRF or SRF and 01 No

Work profile:

1. Primary task: Development of a web application (both frontend and backend).
2. Secondary task: Designing a pool of machine learning algorithms for drug database mining.

Benefits:

1. Opportunity of pursuing Ph.D. in collaboration with BITS and Australian university.
2. Regular discussion with well-known scientists/researchers from India and Australia.
3. Publications in highly reputed journals.

Fellowship amount: JRF: 31000 /- pm, SRF: 35000 /- pm. Those with at least two years' relevant work experience will be employed as SRF.

Eligibility requirements:

1. Bachelor/Masters/MCA/Ph.D. in engineering/science in any discipline with a minimum score of 60% aggregate.
2. Knowledge in one of the web server scripting languages is mandatory.
3. Knowledge in HTML, CSS, and JavaScript are mandatory.
4. Experience in website development and relational database management systems is expected.



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Desirable: Ability to work in an interdisciplinary project. Good written and verbal English language skills are essential. Candidates with knowledge in machine learning and statistical analysis are preferable. GATE / NET qualification is desirable, not mandatory.

Interested candidates with the above mentioned qualification can send their applications giving detailed information about the educational qualifications, research/industrial project experience and published research papers if any, by **August 15 25, 2021** via email: vinti.agarwal@pilani.bits-pilani.ac.in with subject line "Application for Indo-Australian Project 2021".

After preliminary review of applications, suitable candidates will be called for an **online interview** in the last week of August 2021.

Vinti Agarwal
Project Supervisor

Prof. S. S. Vasani
Project Co-Supervisor
and
CSIRO Principal Investigator



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