

## ASIAN SMART CITIES RESEARCH AND INNOVATION NETWORK (ASCRIN)

### EXPRESSION OF INTEREST FOR JOINT PHD SCHOLARSHIP

Applications are invited from eligible candidates for a Joint PhD Position by BITS Pilani, India and La Trobe University, Australia in the field of Graph Algorithms and Computational Geometry.

#### BENEFITS OF THE SCHOLARSHIP

For candidates enrolled in a Joint PhD between La Trobe University and BITS Pilani:

- BITS Pilani PhD fellowship: INR 31,000 – 33,000 pm.
- A stipend of AUD \$28,597 p.a. (2021 rate) for up to one year during residency at a La Trobe University campus
- A La Trobe University Full-Fee Research Scholarship, covering tuition fee relief for up to four years at La Trobe University
- Return economy airfare between Delhi and Melbourne

#### ASCRIN PROJECT DETAIL

**Project title:** Advanced Geometric Algorithms for Network Optimisation and Architectural Layout Design

**Project Team:** Supervisors - Krishnendra Shekhawat (BITS Pilani) and Marcel Jackson (La Trobe)

Co-Supervisors - Manjanna Basappa (BITS Pilani) and Michael Payne (La Trobe)

**Duration:** 4 to 5 years (with one year at La Trobe and remaining period at BITS Pilani, Pilani Campus)

**Minimum and desirable qualifications needed:** M.Sc./M.A. in Mathematics or equivalent degree with at least 60% or equivalent marks. It's preferable if your degree includes a research thesis of 15,000-20,000 words or you are the lead author of a peer-reviewed publication. The candidate is expected to have a very good understanding of graph theory and algorithms. A good level of programming experience could be very beneficial. A course or thesis done in the field of computational geometry will be an advantage.

#### FORM AND HOW TO SUBMIT

Form is available at <https://drive.google.com/file/d/1ZJvDtZmnx-nOu2Q7kUrij7OTSm0iixkb/view?usp=sharing>

Email the completed form to [krishnendra.shekhawat@pilani.bits-pilani.ac.in](mailto:krishnendra.shekhawat@pilani.bits-pilani.ac.in), latest by 15/07/2021.